Where	Invention / practice / event	Year	Category	Additional	RegionTa	Import	DeathTollPe	Type	DatePrecision
	discover: basic physics	-320 000	physics	fall, smash, collide, break, stretch, bend.	unkn	h		dis	guess
	discover: basic chemistry.	-150 000	chemistry	dilute, combine, ash-water tastes bad, eva	unkn			dis	guess
	discover: blood loss makes ani	-150 000	sci ani biology	or human stop working. Blood important! A	unkn			dis	guess
	discover: evaporative cooling	-130 000	physics	"I colder when I wet! Maybe same for fruit?"	unkn			dis	guess
	some animals want to have fun.	-110 000	sci ani biology	guess time. Observe wild animals playing i	unkn			dis	guess
	discover eye-floaters ("yes I have	-60 000	med sight	Floating organic bits in eyeball's liquid.	unkn			dis	guess
	discover: biomes.	-50 000	sci geo	"wetlands eh? Desert eh?"	w			dis	guess
	dis: object up my butt feels good.	-50 000	sexuality	anal pleasure. Lubricated penis/stick/rock.	w			dis	guess
	tech (skillful doing) is… same	-40 000	tech	result but less time/labor/skill needed. Se	unkn	h		dis	guess
	realise food-cleanliness and	-21 000	science	spoilage. "dry stay good long." "fruit rot where	unkn	h	mi	dis	guess
	discover, first sexually transmitte	-20 000	med dise	disease, STD. -2600 written	unkn	h		dis	guess
	discover: unused skills decay.	-20 000	sci human	maybe dog's skills too?	unkn			dis	guess
	discover: rare is valuable.	-18 000	business	esp. gemstones and art. Meteoric iron. Nat	unkn	h		dis	guess
	discover: first sexually transmitte	-17 000	sexuality	disease, STD. (-2600red written)	unkn	h		dis	guess
	concept: artist-types.	-15 000	practice misc	who less-manual-labour, more head-in-the-	unkn			dis	guess
	discover: carbon monoxide danger	-15 000	science	early indoors fire users. Proto-sauna?	unkn			dis	guess
	tooth cavities: also without	-13 000	med teeth	sugar-foods. Just bac infection from parent	unkn			dis	red
	topic: evil hides. (murderer	-12 000	misc	or robber not reveal intent early)	w	h		dis	guess
Eurasia	**farmland no stay fertile forever,**	-9 001	food agri	(Nile flood soil super useful, plentiful farming)	uEura	h		dis	guess
	discover anim have personalities	-9 001	sci ani biology	bold/timid, horny/frigid, sleepy/runalot	unkn			dis	guess
Eurasia	worker burnout (mental)	-7 001	practice	phenomenon begins. Prob slaves in constru	uEura			dis	guess
	discover: self-deception exists.	-7 001	sci human	**important in higher thinking.**	unkn	h		dis	guess
	discover: ethnic groups exist.	-4001	sci human	when someone travel real far, diff skin colc	unkn			dis	guess
Eurasia	pigment: cinnabar mercury ore	*-3001*	material	neolithic, copper age	uEura			dis	guess
Eurasia	rinderpest cow virus,	-3001	med dise vir	evidence	uEura			dis	red
	discover: ants ranch aphids	-3001	sci ani biology	sugary fluid from bug's bum. (LLM is like "	unkn			dis	guess
Eurasia	discover purpose of roots	-3001	sci plant biolo	(get water and minerals from ground, nitro	uEura			dis	guess
China regions	**cannabis medicine, mention**	-2800	med pill	relax and pain relief. It's a brain-chemical.	C	h		dis	red
China regions	**tea discovered**	-2740	drink coff tea	stimulate, calm, healthy, antioxidant	C	h		dis	red
	ocean currents	-2700	sci geo	the sailing-ones notice patterns.	unkn			dis	guess
Egypt	gout-arthritis described	-2640	med dise	urea crystals due to meat diet & X, urea in	Eg		long	dis	red
	concept: hazmat, hazardous	-2600	science	dangerous chemicals/metals. Lye? Mercury? Cy	unkn			dis	guess
Egypt	skin cancer, mentioned	-2500	med dise cancer		Eg		long	dis	red
China regions	liquorice root is good for x.	-2300	med pill	maybe elsewhere too?	C			dis	red
Eurasia	can breed smarts into dog breed.	-2001	sci ani biology	(many anti-hereditarians say such is impossible	uEura			dis	guess
Mesopotamia	rabies mentioned	-1800	med dise		M			dis	red
Egypt	brain damage can remove	-1600	sci human	ability to speak. (Or -3000red)	Eg			dis	red
Egypt	**scurvy (lack of vitamin C)**	-1550	med nutri toxin	(porridge & bread diet hurts you)	Eg	h		dis	red
Egypt	**dementia & depression,**	*-1550*	psychiatry	mentioned in Mega Papyrus	Eg			dis	red

Egypt	**fever meds: willow leaves/bark**	-1501	med pill	Aspirin. also ancient Sumer.	Eg	h	mi	dis	red
	discover pareidolia, see faces	-1501	sci human	in things. 1958 named.	unkn			dis	guess
multiple	claim: women don't want weakness	-1500	marry romance	in their man. No narcotics no bawling no pe	mul			dis	guess
Egypt	cancer, first mentions	-1500	med dise canc	cauterize breast tumor	Eg			dis	red
	concept: hazmat, not ingest	-1200	science	but inhale, or skin contact. Volcanic gas,	unkn			dis	guess
Asia	velvet bean for Parkinson's	-1001	med pill	tremors. China & India.	As			dis	red
Eurasia	infohazard concept,	-1001	sci human	doom and gloom, end of the world, such in	uEura			dis	guess
	claim: most ppl cant be persuaded	-1001	sci human	by arguments. "that's an attack on my group/view, n	unkn	h		dis	guess
Eurasia	discover Earth's tilt	-900	sci astro	causes seasons, long/short sunlight durati	uEura			dis	guess
China regions	mumps, described (-410 Greece)	-640	med dise vir	highly contagious. parotitis. 3 dead in 10k.	C		p0	dis	red
Greece, x	static electricity, when rub	-601	physics	fur and amber together, electrons jump fro	eGk			dis	red
Greece	claim: predict solar eclipse.	*-585*	sci astro	Thales	eGk			dis	pm2
China regions	**pinhole camera, phenomenon**	*-501*	comms photo	Greece -300red. Hole makes upside-down i	C			dis	red
Greece	gonorrhea described	-400	med dise bac		eGk			dis	red
Greece	asthma described	-400	med dise dev	local (dry?) climate worsens	eGk			dis	red
Greece	migraines described 2	-400	med dise heac	-1550 Egy desc	eGk			dis	red
world	**competition boosts innovation,**	-400	practice misc	therefore single-empire peaceful zone fall	w	h	mi	dis	guess
Greece	pregna women shouldn't drink,	-380	pregnancy	get fetal alcohol syndrome.	eGk			dis	red
Greece	hey, this infection reduces	-350	medicine2	symptoms of madness. (brain chemicals ch	eGk			dis	red
Greece	**discover: birds migrate**	-350	sci ani biology	Aristotle first to write it down.	eGk			dis	red
Greece	amber is formed over time.	-350	science		mul			dis	red
	dis: fish make sounds for comms	-330	sci ani biology	Aristotle writes.	uEura			dis	red
Greece	pea cultivation mentioned	*-280*	food vegg fruit		eGk			dis	pm2
Greece	idea: heliocentric solar system	*-250*	sci astro	competing theory, lost	eGk			dis	red
Greece	**measure size of Earth**	-240	sci geo	noon shadow angles at places	eGk			dis	yr
Greece	consciousness is in the brain,	*-162*	sci ani biology	not heart. "look, I'll hit goat's head."	eGk			dis	pm2
Greece	discover: Earth precession 26ky	-145	sci astro	Hipparchus. "equinoxes moving westward"	eGk			dis	red
Greece	discover: Earth precession 26ky	-135	sci astro	Hipparchus estimates 36ky. Later Copernic	eGk			dis	red
Greece	**fluid mechanics, hydraulics**	-120	physicsMov	Tesibius	eGk	h		dis	pm2
Rome Republic	"lead exposure hurts you"	-60	science	lead-acetate wine sweetener, lead water pipes	eGR			dis	red
Asia	pesticides: crysanthemum.	1	food agri tech	maybe China. (plants do poison competing	As			dis	red
world	out-of-body experiences, mentione	*30*	religion superna	some claim they are proof of spiritworld	w			dis	guess
Eurasia	St Elmo's Fire, glowing plasma	47	sci geo	corona discharge of elec, pointy item. (ligh	uEura			dis	guess
Europe	geocentric solar system mk2	150	sci astro	false "Earth is center" theory. Ptolemy.	e			dis	pm2
Rome, Greece	describe coeliac disease	*180*	med dise dev	(wheat-gluten irritates gut badly)	eGR			dis	pm2
Asia	beri-beri ailment, cos ate	250	med dise	mostly polished-rice. Thiamine vitamin B1	As		xsome	dis	red
India	sine function	530	math	plusminus 15y	In			dis	red
England regions	propose: tides caused by moon.	*725*	sci geo	by Bede. 19y lunar cycle on tides.	eBri			dis	pm2
Eurasia	lupus, autoimmune disease	850	med dise dev	"lesions look like wolf bites"	uEura			dis	red
Iraq	**nature: food chains**	860	sci ani biology	.	ME			dis	red

Muslim regions	hemophilia(cant stop bleeding)	930	med dise dev	hereditary disease?	ME		xnat	dis	pm2
Muslim regions	pinhole camera, again	*1010*	tech,optical	just need cave/pit, pelt with small hole, a p	ME			dis	pm2
Muslim regions	**optical experiments (science met**	1015	physicsOpt	Mr AlHazen / Ibn al-Haytham. Experiments!	ME	v		**dis**	red
German regions	sunspots have a cycle.	1030	sci astro	Hmm, things happen in the sun.	eGer			dis	pm2
Spain (Islamic)	**the speed of sound**	1040	physics	idea and discovery. Explains echo.	eSpa	h		dis	pm2
China (Song dy)	fossils: fish in mountains WTF.	1050	sci history fos		C			dis	red
China (Song dy)	observe a supernova	1054	sci astro	in Taurus constellation direction	C			dis	yr
China (Song dy)	proposal: climate change.	1088	sci geo	Rainfall patterns change, deserts form?	C			dis	yr
Muslim regions	heart and small capillaries	1260	sci ani biology	Ibn al-Nafis	ME			dis	red
Italy regions	**anatomy, dissect, again**	*1300*	med surger	urge to discover more	elta			dis	pm2
Italy regions	**paintings: perspective.**	*1415*	art tech	Look at what I can do!! They smaller in the dist	elta	h		dis	pm2
Europe	**scurvy cure (long sailing)**	*1495*	med nutri toxin	just Vitamin C fruits or pickled greens.	e	h	mi	dis	pm2
Italy regions	**think fossils are ancient creatures. da**	1498	sci history fos	**paleontology begins. Ichnology(trace fossils, fo**	elta	h		dis	red
Europe	gangrene amputation mark N	*1510*	med surger	cut on healthy part not rotten part.	e		mi	dis	pm2
Europe	ocean currents, write about.	1513	sci geo	(1539 near-Iceland currents on map, accur	e			dis	yr
Italy regions	foot-and-mouth disea described	1514	med dise	(Mediterranean trade)	elta			dis	yr
Europe	Copernicus: heliocentric view	1514	sci astro	of our solar system. Italy/Poland.	e			dis	yr
Europe	describe appendix (anatomy)	*1530*	sci human	little wormlike bit of human guts. Does it h	e			dis	pm2
West n Cen Europe	anatomy book set,	1543	medicine	"Galen-anatomy so wrong" says Vesalius	eW			dis	yr
Europe	heliocentric solar system	1543	sci astro	Copernicus.	e			dis	yr
Europe	teeth: men n women have same	1543	sci human	count of teeth. Vesalius. Year publish ana	e			dis	yr
Italy regions	**germ theory of disease**	1546	med dise	not gods/demons/ghosts/badair/spontaneo	elta	vv	**vmi**	**dis**	yr
Europe	**heliocentric acceptance rising**	1547	sci astro		e			dis	yr
Europe	**inflation concept (if supply increa**	*1550*	busin fina	lots silver & gold from Amer cause X.	e			dis	pm2
Italy regions	head bone conducts sound	1551	sci ani biology	"how do ears work?"	elta			dis	yr
Eurasia	square root, cube root algorithm	1570	math adv	vague! maybe 1515	uEura			dis	guess
Europe	antimalaria quinine to Europe.	*1570*	med pill	Peru-Bolivia people use.	e	h	mi	dis	pm2
Spain	discover/descri altitude-sickness	1590	sci human	not enough oxygen to person. (-30 China narro	eSpa			dis	yr
Italy Flor Veni	dyn theory of simple machines	1600	physicsMov	Galilei. Only transform energy.	elta	h		dis	yr
Europe	**Earth has a magnetic pole.**	*1600*	sci geo	just like a spinning magnet orb in my lab. Thi	e			dis	pm2
Eurasia	discover purpose of fruits	1600	sci plant biolo	(animals do seed dispersal and poop fertiliser	uEura			dis	guess
	claim: struggle makes strong/	1600	sci soft	advanced. Did wars boost Europe? Did hars	unkn			dis	guess
Italy regions	**glow-in-dark phosphor stones**	1602	physics	discovered. Sunlight charged them. Atoms	elta			dis	yr
Poland	**oxygen isolated, part 1**	1603	chemistry	alchemist M Sendivogius.	eE			dis	yr
Australia	**Australia discovered by Europeans**	1606	sci geo	prob "we could utilize this land"	west	h		dis	yr
German regions	Earth's orbit is elliptic.	*1608*	sci astro	Kepler. "farther from the Sun eh?"	eGer			dis	pm2
German regions	hey, planet orbits are ellipses	*1608*	sci astro	not god-placed perfect circles. Kepler.	eGer			dis	pm2
West n Cen Europe	claim, moon causes tides.	*1609*	sci geo	Galilei mocks lunar theory.	eW			dis	pm2
Europe	confirmation bias,	1610	psychology	Francis Bacon	e			dis	red
Italy Flor Veni	Jupiter moons seen, this complicates t	1610	sci astro	Galilei & Marius	elta			dis	yr

Italy Flor Veni	**inertia (keeps moving)**	*1613*	physicsMov	Galilei. Air and slide/roll friction slows ob	eIta	v		**dis**	pm2
Italy Flor Veni	discover? a binary star (Mizar)	1617	sci astro	vaguely. Galilei.	eIta			dis	yr
	discover? a binary star (Mizar)	1617	sci astro	”might be visual double we can’t tell, spec	unkn			dis	yr
German regions	Kepler’s three laws of planetary	1619	sci astro	motion.	eGer			dis	yr
German regions	planet’s distance from sun	1619	sci astro	determines how long one go-around. Keple	eGer			dis	yr
Italy regions	graphology: everyone has different	1622	sci soft	handwriting style.	eIta			dis	yr
England	**west: heartbeat pumps blood**	1628	sci ani biolog	W.Harvey. ”circle continuously”. Limited bl	eBri	h		dis	yr
Europe	math the music-strings. Marin Mersenr	1636	physicsMov	length, mass, tension. Long loose heavy fo	e			dis	yr
Eurasia	add salt or saltpeter to ice, to	1645	food tech	get extra cooling. Allows for ice-cream. Pl	uEura			dis	red
Europe	rickets, vitamin D deficiency, clearly d	1645	med nutri toxin	1922 demo vitD existence	e			dis	yr
Europe	slime molds: write about.	1654	sci ani biology	mobile ooze, not multicellular. Call it a rap	e			dis	yr
France regions	**fluid mechanics: Pascal’s law**	1660	physicsMov	hydraulics, wells, dams	eFra	h		**dis**	yr
England	bird in vacuum dome, dies. Also sc	1660	sci ani biolog	”they need the air” demonstration. 1868 o	eBri			dis	yr
Europe	claim: reading in low light, bad	1660	sci human	for eyeballs. Eye perma elongate?	e			dis	guess
Italy regions	blood circulation: capillaries found	1661	sci ani biolog	Were theorised 30y earlier.	eIta			dis	yr
West n Cen Europe	sleep paralysis (can’t move, pressure	*1664*	sci human	incubus demons blamed. 1928 paper	eW			dis	pm2
England	**fossils and extinction.**	1665	biology evo	**deep time – more biology.** Millions or billions	eBri	v		**dis**	yr
England	idea of absolute zero temperature	1665	physics	Boyle. 1702 Amontons estimate -240 C from air	eBri			dis	yr
France regions	eye has blind spot,	*1665*	sci ani biolog	where nerve-bundle goes.	eFra			dis	pm2
England, France	**blood transfusion: dogs**	1665	sci ani biology	experimental science	eW	h		dis	yr
German regions	discover: insects in amber-stone	1665	science	ancient pine resin. Use microscope.	eGer			dis	yr
West n Cen Europe	optics: prism splits light (dispersive	*1666*	physicsOpt	glass of water also makes rainbow	eW			dis	pm2
Europe	meat in a jar: maggots not appear	1668	biology	no spontaneous appearance of life	e			dis	yr
Europe	Coriolis effect, investigate	1668	physicsMov	Italy, inertia	e			dis	yr
German regions	phosphor isolated	*1669*	chemistry	alchemist guy did	eGer			dis	pm2
Denmark	Nicolas Steno begins two fields	1669	sci geo	fossils, stratigraphy, geology. Crystals constan	eSc			dis	yr
England	**differential equations**	*1671*	math adv	Newton. Rates of change, multiple equatio	eBri	h		dis	pm2
France regions	discover: pendulum speed is	1672	physics	diff here cos diff gravity here. (height, E	eFra			dis	yr
German regions	rub sulphur sphere, get funny.	1672	physics	Otto von Guericke. Maybe gravity is electrostatic?	eGer			dis	yr
England	Magnus effect (Newton).	1672	physicsMov	1742 in Robins-ballistics.	eBri			dis	yr
Netherlands	**what, stuff beyond our senses**	*1672*	science	microscope. Drapery shop guy’s lenses. 1698 visits k	eW	h	mi	dis	pm2
Europe	math of universal joint/gimbal	*1675*	physicsMov	1686 Hooke propose constant-velo joint	e			dis	pm2
Netherlands	**discover bacteria**	1676	biology micro	”oh shit, tiny life in contaminated water”	eW	vv	**vmi**	dis	yr
Denmark	measure speed of light mk1	1676	physics	Ole Rømer. The meas was 27% off of our	eSc			dis	yr
England	use transit of Venus to	1677	sci astro	triangulate solar system size	eBri			dis	yr
England	**first dinosaur fossil found.**	1677	sci history fos	”must be giant human!” ”from Noah’s flood-kill	eBri			dis	yr
Netherlands	wave theory of light	1678	physicsOpt		eW			dis	yr
England	vibration node cymatics	1680	physics	sound vibration moves particles	eBri			dis	yr
Italy regions	fingerprints on objects hmm	1686	justice		eIta			dis	yr
Europe	fluid mechanics mark 3	1686	science	Torricelli, Pascal, Mariotte	e			dis	yr

England	calculate speed of sound in diff	1687	physicsMov	air densities. Newton. 1816 Laplace's versi	eBri			dis	yr
England	**Newton's physics**	1687	physicsMov	calculate gravity. Planets' orbits.	eBri	v		**dis**	yr
England	blank orb theory of tides,	*1687*	sci geo	Newton. No friction, no ocean basin shape.	eBri			dis	pm2
England	anorexia nervosa,eating disorder	*1689*	psychiatry	case descriptions	eBri			dis	pm2
Europe	carbon monoxide danger	1697	biology	Gets into blood, prevents oxygen carry	e			dis	red
France	**begin measure friction coefficient**	1699	physicsMov	metal on ice, wood on wood, ice on ice. L D	eFra	h		dis	yr
Italy regions	"baker's lung" ailment talk	1700	med dise	flour inhale consequence. This and anthrax	eIta		mi	dis	yr
Eurasia	**notice prac: psychotech.**	1700	psychology	esp. religion/supernatural-appeasing. Ritua	uEura	h	both	dis	guess
England	what causes the rainbow?	*1703*	physicsOpt	Newton with prism. Light bouncing off raindrop	eBri			dis	pm2
England GB	amber-rub sparks & lightning,	1708	physicsEM	are probably the same thing, sparky jumpy.	eBri			dis	yr
the west	carbon monoxide danger,	1716	biology	first proper study. Maybe with bunny or mc	west			dis	yr
England GB	elec: conductor & insulator	1720	physicsEM	and electrostatic induction.	eBri			dis	yr
Europe	**pregna women shouldn't drink (re**	*1725*	pregnancy	fetal alcohol syndrome, deformed baby.	e			dis	pm2
the west	**find mammoth fossils.**	1728	sci history fos	"Elephant-types in Siberia??"	west			dis	yr
England GB	measure speed of light, mk3	1729	physicsEM	Bradley, stellar aberration, calc from starlight a	eBri			dis	yr
France regions	sleep pattern study	1729	sci ani biolog	circadian rhythm in plants	eFra			dis	yr
England GB	hey, elec can travel on wire.	1729	tech,elec		eBri			dis	yr
Europe	Earth is squished not sphere (measure	*1735*	sci geo	Newton proposed 1687.	e			dis	pm2
Switzerland	fluids: Bernoulli's principle.	1738	physicsMov	speedier flow is less pressure (airplane win	eGer			dis	yr
the west	zoology: hydra polyps found	1740	biology micro	a stationary water animal.	west			dis	yr
the west	**family trees of inherited illnesses**	*1741*	med dise dev	early evolutionist man, Maupertuis	west	h		dis	pm2
German regions	electric spark travels on wire,	1744	tech,elec	long distance.	eGer			dis	yr
German regions	**electrici: capacitor,** Leyden jar	1745	tech,elec	accidental discovery. store a high-voltage charge	eGer	h		dis	yr
West n Cen Europe	conservation of angular momentum	1746	physicsMov	Euler and Bernoulli both found it. Distribut	eW			dis	yr
Spain	platinum isolated	*1748*	mat_metal	1557 unkn metal, an impurity in gold. 1735 see nativ	eSpa			dis	pm2
Scotland	evaporative cooling: try ether.	1748	physics	a demo.	eBri			dis	yr
	discover: underwater spiders (writ	1750	sci ani biology	they carry airbubble. 2011 paper.	unkn			dis	red
German regions	**nickel metal isolated.**	1751	mat_metal	good additive to steel. Nickel-plated. Get a	eGer	h		dis	yr
USA	**lightning is electricity!**	1752	physicsEM	Ben Franklin, USA most famous inventor	US	h		dis	yr
the west	dis: a non-photosynthe plant.	1753	sci plant biology		west			dis	yr
Europe	nebular hypothesis	*1755*	sci astro	nebulas collapse into star systems.	e			dis	pm2
Europe	paranoia, delusionof persecution	1759	psychiatry	1884 lots mentions	e			dis	yr
Europe	use transit of Venus to	1761	sci astro	triangulate solar system size	e			dis	yr
the west	**aspirin(willow bark) for fever**	*1763*	med pill	mention in letter	west		vmi	dis	pm2
England, Scotland	**tick-borne disease, first found**	*1764*	med dise bac	Lyme disease, "worm" carrier	eBri		xnat	dis	pm2
Europe	discover electric eels' electricstuff	*1765*	sci ani biolog	600 volts, can stun/kill horse	e			dis	red
England GB	**hydrogen gas**	1766	chemistry	lightweight, floats, flammable	eBri	h		dis	yr
Europe	analyse human breast milk, what's	*1768*	sci ani biolog	or 1859	e			dis	red
Europe	hard/soft water (esp soap and indu	1770	material		e			dis	guess
the west	childbirth fever pondering.	1771	pregnancy	puerperal fever, placenta site.	west			dis	yr

German regions	predict X in asteroid-belt range.	1772	sci astro	”should be something there”. Later find ast	eGer			dis	yr
England GB	**plants restore air to fire-enab**	1772	sci plant biolo	ling state. gas output detected.	eBri	h		dis	yr
Sweden	**oxygen isolated part N**	*1773*	chemistry	C W Scheele. 1777 the word.	eSc			dis	pm2
England GB	**oxygen isolated, published**	1774	chemistry	J.Priestley. wait, this thing enables BURNIN	eBri	h		dis	yr
the west	dis: ani which becomes two if	1774	sci ani biolog	cut in half. Starfish. Planarian flatworms.	west			dis	red
Europe	cancer-risk jobs detected.	1775	busin_type	esp firefighters. Mercury hatter. Chimneysweep	e			dis	red
the west	science of skin cancer,	1775	med dise canc	squamous cell carcinoma	west			dis	yr
West n Cen Europe	dynamic theory of tides	1775	sci geo	(ahead of moon’s orbit-place) P-S Laplace.	eW			dis	yr
England GB	**carcinogens, cancer-causers**	1775	science	scrotums of chimneysweeps, soot on skin i	eBri	h		dis	yr
Switzerland	heat conductiv, it’s logarithmic	1776	physics	swiss-german J. H. Lambert	eGer			dis	pm2
England GB	**laughing gas / nitrous oxide**	*1779*	drugs mild	maybe dentist also	eBri			dis	pm2
the west	photosynthesis inkling,	1779	sci plant biolo	plant needs light to output oxygen.	west			dis	yr
Europe	understand gunpowder chemistry	1780	chem_exp	oxygen in saltpetre nitrates, not from atm	e			dis	red
West n Cen Europe	lactose (milk sugar) isolated	1780	chemistry	year when identified as a sugar.	eW			dis	yr
the west	heat conductiv, measure	*1780*	physics	”metal X wire melted the waxcoating first”	west			dis	pm2
Italy regions	galvanic in animal tissue	1780	sci ani biolog	Electricity makes corpse twitch.	eIta			dis	yr
West n Cen Europe	Uranus-planet discovered	1781	sci astro	German-Brit composer-astronomer Herschel	eW			dis	yr
the west	dis: tellurium in gold ore.	1782	material		west			dis	yr
England GB	binary stars, eclipsing	1782	sci astro	Algol.	eBri			dis	yr
German regions	Romani lang is very India,	1782	sci lang	JCC Rüdiger researched.	eGer			dis	yr
England GB	**water is hydrogen & oxygen**	1783	chemistry	inflamm air & dephlogisticated air, James	eBri	h		dis	yr
Spain	tungsten isolated	1783	mat_metal		eSpa			dis	yr
France regions	electricity: Coulomb’s law	1783	physicsEM	force between two static charges. Like repe	eFra			dis	yr
West n Cen Europe	white dwarf stars, discover	1783	sci astro	Herschel. 1910 hey dim but white.	eW			dis	yr
the west	**autistic savants, identified**	*1783*	sci human	special mind ability (memory/calc)	west	h		dis	pm2
the west	hey maybe drugs/alco addiction	1784	sci human	is MEDICAL, not a moral failing. Brain chan	west			dis	red
West n Cen Europe	guts & skin are full of bacteria.	*1785*	biology micro	a discovery.	eW			dis	pm2
England GB	argon gas isolated	1785	chemistry	(if you want very unreactive gas.)	eBri			dis	yr
West n Cen Europe	citric & malic(apple) acid isolated	1785	chemistry	handy food n candy additives. Swe-Ger ma	eW			dis	yr
France regions	**principle: conservatio of matter**	1785	physics	Lavoisier. Before knew matter-to-energy annihil	eFra	h		dis	yr
the west	rare earth elements hmm	*1787*	material2	ore dissolves in acid	west			dis	pm2
France regions	chemistry: no phlogiston	*1788*	chemistry	”oxygen theory” begins	eFra			dis	pm2
the west	”chronic hepatitis” infection	*1788*	med dise vir	1903 as infection??	west		xnat	dis	pm2
France regions	**conservation of mass**	1789	chemistry	when burn or reaction. Lavoisier.	eFra	h		dis	yr
the west	polio described, debility	1789	med dise vir	1840 describe as separate disease	west			dis	yr
England GB	titanium discovered	1791	mat_metal		eBri			dis	yr
Italy regions	nerve signals are electric	*1791*	sci ani biolog	galvanism. Volta. 1786 experiment.	eIta			dis	pm2
the west	zoology: bees’ fertilisation, puzzle	1792	sci ani biolog	if X, maledrones, if Y, femaleworkers	west			dis	yr
Italy regions	bats must use sound somehow	1793	sci ani biolog	test owl vs bat in verydark room	eIta			dis	yr
Italy regions	zoology: test owls&bats in dark	1793	sci ani biolog	(superhearing versus echolocation?)	eIta			dis	yr

ngra	”lead is toxic/poisono” talkbegin	*1793*	sci ani biolog	1913?? (1829 ”lead in drinking”)	westN			dis	pm2
England GB	**chemistry: catalysis**	1794	chemistry	presence of this, speeds reaction; doesn’t	eBri	h		dis	yr
the west	**discover past glaciers (ice ages)**	1795	sci geo	1818 theory of Scandi glaciers.	west	h		dis	red
France	**extinction of species: proof.**	1796	biology evo	Cuvier, elephant fossils proof.	eFra	h		**dis**	yr
Europe	analyse poison frogs	*1796*	sci ani biology		e			dis	red
Italy regions	Venturi effect. Tubes, drop in	1797	physics	pressure as narrower causes speed-up. 18	eIta			dis	yr
ngra	**”principle of least x” beginterms**	*1797*	science	least action. Cosmos is never ”extra effort”.	westN	h		dis	pm2
France	**chrome metal isolated**	1798	mat_metal	great for stainless steel	eFra			dis	yr
the west	tellurium purified/isolated	1798	material		west			dis	yr
the west	**discover colorblindness**	*1798*	med sight	”wait, you can’t distinguish these two? Re	west	h		dis	pm2
England GB	friction makes heat, discovery	1798	physics	later Joule 1840s	eBri			dis	yr
England GB	sorta measure gravita constant	*1798*	physicsMov	Henry Cavendish, torsion balance apparatu	eBri			dis	pm2
England, Scotland	ADHD discovered	1798	psychiatry	attention-deficit, hyperactive	eBri			dis	yr
England GB	zoology: duckbilled platypus	1799	sci ani biolog	described, an odd fella.	eBri			dis	yr
England GB	describe coeliac disease	1800	medicine2	prescribe rice & x diet	eBri		mi	dis	yr
England GB	infrared light, discovered	1800	physicsOpt	Herschel. Can’t see it, it heats things.	eBri			dis	yr
ngra	”social/peer contagion” term	*1800*	psychology	1997 ”peer contagion”	westN			dis	pm2
ngra	”androgens” male hormones	1800	sci ani biolog	todo	westN			dis	guess
Eurasia	discover purpose of leaves	1800	sci plant biolo	(sunlight into plant’s chemical energy)	uEura			dis	guess
Eurasia	”post-orgasm clarity” claim	*1800*	sexuality	brain chemicals reset or rapid-reuptake	uEura			dis	guess
Italy regions	**electric circuit**	*1800,3*	tech,elec	Volta, voltaic pile. Two pure metals, want t	eIta	v		**dis**	mi
England UK	discover, light cancels light.	*1801*	physics	(destructive wave interference in EM field) doul	eBri			dis	pm2
Italy regions	see an asteroid with telescope	1801	sci astro		eIta			dis	yr
German regions	**discover ultraviolet light, UV**	1801,1	physicsOpt	Ritter. We can’t see it but it affects.	eGer	h		dis	month
England UK	atmosphere’s composition.	*1802*	sci geo	78% nitrogen, 21% oxygen etc. Dalton.	eBri			dis	pm2
the west	correct descri of hydrolo cycle.	1802	sci geo	evaporate, cloud, water, river. John Dalton. 17	west			dis	yr
Europe	iridium isolated	1803	mat_metal	Iris goddess of rainbow. 1842 high purity iridiu	e			dis	yr
Europe	osmium isolated	*1803*	mat_metal	named for its very smelly oxide	e			dis	pm2
France	”entropy”(en lost to dissipation/fric	1803	physics	L Carnot	eFra			dis	yr
the west	discover a binary star (Castor in G	1803	sci astro	W Herschel. 25y observe. ”not an optical d	west			dis	yr
West n Cen Europe	hey, vestigial organs, why.	*1804*	biology evo	evolution stuff, no significant benefit from	eW			dis	pm2
the west	**alcohol addiction as disease**	1804	drink alco	brain wired like X	west	h	xsome	dis	yr
the west	compare wetness of liquids,	*1804*	physics	begin. ”what you mean water and alcohol s	west			dis	pm2
England UK	wave theory of light	1804	physicsOpt	diffraction, bounce angle	eBri			dis	yr
England UK	atomic masses chart, relative	1805	chemistry	Set hydrogen atom as 1. John Dalton.	eBri			dis	yr
ngra	”tropo/stratosphere” term begin	*1805*	sci geo	1905/06 rise	westN			dis	pm2
the west	first amino-acids isolated	*1806*	chemistry	asparagine	west			dis	pm2
England UK	**kinetic energy**	1806	physicsMov	Young. Potential/kinetic/impact deform and hea	eBri	h		dis	yr
England UK	elec couldbe used to make light	*1806*	tech,elec	Humphry Davy.	eBri			dis	pm2
England UK	**discover: curved wing lift.**	*1807*	physicsMov	Air moves longer dist on upper surface, causing	eBri	h	both	dis	pm2

the west	asteroids are x, not y.	1807	sci astro	1801 find Ceres. Diff from comets.	west			dis	red
England UK	**electrolysis isolate 5 elements**	1808	chemistry	Humphry Davy. Magnesium sodium potassium	eBri	h		dis	yr
Sweden	muscle lactic acid buildup	1808	sci ani biolog	1780 find it in sourmilk.	eSc			dis	yr
ngra	”body language” term begins	1809	sci human		westN			dis	guess
	begin absorb vs adsorb distinction	*1809*	science	adsor is reversible and surface-limited. 19	west			dis	pm2
multiple	bluetongue virus, insectborne.	1810	med dise vir	ruminants only. South Africa first.	mul			dis	red
the west	discover: Earth orbit eccentricity	1810	sci astro	changes over time. 100k years cycle, big p	west			dis	guess
Europe	N molecules in M gas volume	1811	chemistry	Amadeo Avogadro proposed	e			dis	yr
France	iodine isolated	1811	chemistry		eFra			dis	yr
the west	**molecules discovered**	1811	chemistry	Buncha atoms in a chain, huh.	west	h		dis	yr
France	heat conduction, formula for.	*1811*	physics	Fourier. heatdiffusion partial diff-equation	eFra			dis	pm2
England UK	**find a complete dinosaur fossil sk**	1811	sci history fos	in Dorset, by 12yo and her brother	eBri	h		dis	yr
ngra mul	debate the purpose(s) of sleep (moder	1812	sci ani biology	flush toxins? Conserve energy durin dark?	mul			dis	red
the west	natural selection, human skin colours	1813	biology evo	1813 lecture, 1818 publish. Scot-American	west			dis	yr
Switzerland	idea: goiter is iodine deficiency	1813	med dise		eGer		mi	dis	yr
German regions	the sun also has a spectrum.	1814	physicsOpt	Fraunhofer. 1802 Wollaston.	eGer			dis	yr
West n Cen Europe	**confirm: stars are other suns.**	*1814*	sci astro	can calc dist to stars.(Fraunhofer spectra)	eW	h		dis	pm2
the west	analyze fallen meteor mk3	1815	sci astro	1840 mark 4	west			dis	yr
the west	urea-molecule isolated	1817	chemistry	super common. Later polyUREthane.	west			dis	yr
German regions	caffeine isolated	1819	chemistry	in coffee and tea	eGer			dis	yr
France	science of corrosion mk1.	1819	science	L J Thénard, it’s electrochemical	eFra			dis	yr
France	**electro-magnetic interactions**	1820	physicsEM	Biot-Savart law	eFra	h		dis	yr
Denmark	**magnetic field**	1820	physicsEM	Hans C. Ørsted / Oersted	eSc	h		dis	yr
the west	**dis: make magnetic field with**	1820	physicsEM	electricity(lightning) moving in wire. Mr Örs	west	v		dis	yr
England, Ireland	**Antarctic continent found**	1820	place	science-related.	eBri	h		dis	yr
	claim: short men more aggro	1820	psychology	than avg height. ”chip on their shoulder”	mul			dis	guess
France	electricity: Ampere’s law	1820	tech,elec	mag-field is proportional to current.	eFra			dis	yr
ngra	”antioxidant” bio molecules	1821	biology molecul	helpful. 1923 rise begins.	westN			dis	pm2
German regions	Seebeck effect, two metals & heat	1821	physics	difference. Electrons move, giving voltage. (ele	eGer			dis	yr
German regions	**thermoelectric effect**	1821	physicsEM	temp diff causes voltage diff, electricity f	eGer			dis	yr
ngra	”meteorites” mentions begin	*1821*	sci astro	1850 big rise, 1886 peak, 1963 peak	westN			dis	pm2
Europe	discover more: birds migrate.	1822	sci ani biology	a stork has arrow/spear from Africa.	e			dis	yr
England UK	**mercury is poison**	1823	material2	cargo of mercury, oops, argh	eBri		p0	dis	yr
France	theory of cell function	1824	biology		eFra			dis	yr
the west	ALS / MND / LouGehrig’s, describec	*1824*	med dise dev	neurodegenerative, rare. 1874 named ALS	west			dis	pm2
	atmospheric scientist, proto.	1824	sci geo climate	not-job yet. Measure, predict, think.	west			dis	red
England UK	benzene isolated	1825	chemistry	Faraday. ”seems useful”	eBri			dis	yr
Denmark	**aluminum metal purified**	1825	mat_metal	hard to melt its ore, 2076 C, need SPECIAL	eSc	h		dis	yr
the west	TB, tuberculosis is...	*1825*	med dise bac	oh X & Y & Z are all TB! But no antibiotics yet.	west		mi	dis	pm2
ngra	**”sleepwalking” term rise**	*1825*	medicine2	2011 peak	westN			dis	pm2

Europe	Laplace invents fields.	*1825*	physics	rewrote Newton's gravity theory as fields-v	e			dis	red
England UK	**electromagnet**	1825	physicsEM	current in wire makes magnetic field. Enab	eBri	vv		dis	yr
the west	Tourette's syndrome, "tics"	*1825*	psychiatry	and swearing. 1918 "maybe it's from brain	west			dis	pm2
the west	allergy science 1, hayfever	*1826*	med dise alle		west			dis	pm2
France	**physics: amount work done**	1826	physics	Mr. Coriolis	eFra	h		dis	yr
German regions	**electricity: Ohm's law**	1826	tech,elec	current=voltage div resistnce. U=R times I. Res	eGer			dis	yr
the west	leukemia / leukaemia	1827	med dise dev	blood cancers in bone marrow.	west			dis	yr
the west	Brownian motion	1827	physics	particles just move cos heat wiggle	west			dis	yr
German regions	mammal egg cells seen, with	*1827*	sci ani biolog	microscope. Not many floating around.	eGer			dis	pm2
German regions	spontaneous chem reactions	1828	chemistry	discovered. Molecules do decay, unstable!	eGer			dis	yr
	discover MRKH syndrome women	1829	med dise dev	no uterus, no upper vagina. 10-25 genes n	west			dis	yr
France	viscosity, slow liquids move.	1829	physicsMov	Poiseuille. Honey. Oil.	eFra			dis	yr
England UK	discover poop fossils, coproliths	1829	sci history fos	coprolites.	eBri			dis	yr
the west	**chloroform anaesthetic (5min for**	1831	med surger	***triple simultaneous discovery***	west	h	vmi	dis	yr
ngra	"tidal forces" term beginish, 1722	1831	physics	moon-and-planet things. 1860s rise. 1979	westN			dis	red
ngra	"parasitic disease" beginish	*1832*	med dise para	1800 blip, 1850s rising. 1774 blip	westN		xnat	dis	red
	amber-stone is ancient, Eocene	1832	sci history	"MILLIONS of years ago."	west			dis	red
the west	**discover enzymes**	1833	biology molecul	diastase amylases.	west	h		dis	yr
ngra	"allergic / anaphylactic shock"	1833	med dise alle	terms begin	westN			dis	pm2
the west	lupus, autoimmune disease	*1833*	med dise dev	erythema centrifugum. 1875 disc version.	west			dis	pm2
the west	discover: repeating meteor showers	1833	sci astro	Perseids, Geminids, Lyrids. Comet tails?	west			dis	yr
ngra	"wind-pollinated" term begin	*1833*	sci plant biolo	insects not carry pollen for this plant. 1809 bli	westN			dis	pm2
the west	liver cirrhosis diagnosis mkN	*1834*	med dise	fibrosis scars	west			dis	pm2
France	Peltier cooling, discovery	1834	physics	two metals meet and electric current	eFra			dis	yr
the west	see spores (microscope)	*1835*	biology micro	and understand.	west			dis	guess
France	osteoporosis in elderly	*1835*	med dise	esp menopausal women, or poor diet.	eFra			dis	pm2
Switzerland	man uses Meadowsweet extract	*1835*	med pill	for pain relief. Then dis that same willow-b	eGer			dis	pm2
France	Coriolis effect, math	1835	physics		eFra			dis	yr
	discover&write: legless lizards	1835	sci ani biolog	They are not snakes.	west			dis	red
the west	**confirm: stars are other suns.**	1835	sci astro		west	h		dis	red
France	**"lead exposure hurts the mind"**	1836	sci ani biology	esp lead processing fumes. (earlier mercury-f	eFra	h		dis	yr
ngra	"convergent evolution" term	1838	biology evo	same env pressure → same shape. 1887 m	westN			dis	pm2
France	idea: goiter is iodine deficiency.	*1838*	med dise		eFra		mi	dis	pm2
Italy regions	**worms in humans, huh.**	1838	med dise para	how to get rid of?	eIta	h		dis	yr
West n Cen Europe	**Ampere & Faraday & Ohm**	*1838*	physicsEM	four important electric things, building on	eW	v		**dis**	pm2
West n Cen Europe	OCD, obsess-compulsive disor	1838	psychiatry	"monomania"	eW			dis	yr
German regions	calculate distance to a star	1838	sci astro	Stellar parallax, Earth in two positions. F W	eGer			dis	yr
the west	stereo vision demonstration	1838	sci human	not photo. see depth from two images.	west			dis	yr
the west	"phossy jaw" health concern.	*1839*	med dise	Five years in factory inhale white phosphorus.	west			dis	pm2
	phase velocity vs group velocity	1839	physics	(or 1877 Rayleigh.)	west			dis	red

France	photovoltaic effect	1839	physicsEM	light causes voltage difference (knock elec	eFra			dis	yr
Europe	**agricultural science of Liebig**	1840	food agri tech	N, P, K atoms for plant growth (impoverished sc	e	v	**vmi**	**dis**	yr
German regions	discover: Ulexite crystals	1840	mat_rock	they gray, and transmit image, and opaque	eGer			dis	red
ngra	”iodine deficiency” beginish	*1840*	sci human	1922 bigrise, 1932 peak1	westN			dis	pm2
Europe	hard/soft water (esp soap and indu	1841	material		e			dis	guess
Italy regions	cervical cancer correlates with	1842	med dise vir	sexual activity. (**virus infec cancer**) (Nuns h	eIta			dis	yr
Austria	sound: doppler effect	1842	physics	waves are closer/farther together due to	eGer			dis	yr
the west	**principle: conservation of energy**	1842	physics	can transform en→ma, ma→en. First law of	west	h		dis	yr
England UK	magnetostriction	1842	physicsEM	material changes shape when magfield. La	eBri			dis	yr
ngra	”human evolution” term	*1843*	biology evo	2016 peak mentions?	westN			dis	pm2
the west	rare earth elements La,Y,Er	1843	material2		west			dis	yr
England UK	**mechanical movement to heat**	1843	physics	Joules per calorie	eBri	h		dis	yr
England, Scotland	potential energy (to kinetic en)	*1843*	physicsMov	Rankine. Orb fall, orb roll slope.	eBri			dis	pm2
England UK	**heat is just motion of tiny bits.**	*1844*	physics	atoms/molecules. Year demonstrated. (162	eBri	h		dis	pm2
German regions	understand the pancreas.	1844	sci ani biology	its enzymes break food	eGer			dis	yr
England UK	magfield affects polarised light,	1845	physicsEM	fascinating. Faraday.	eBri			dis	yr
France	Neptune discovered w math	1846	sci astro	because Uranus orbit was off	eFra			dis	yr
ngra	”wet dreams” beginterm	*1846*	sexuality sci	(re)naming the sexdream ejaculation. 201	westN			dis	pm2
ngra	”lead poisoning” term begin	*1847*	med dise	1898 rise, 1968 rise, 1990 rise	westN		mi	dis	pm2
	hey don’t have corpse particles	1847	medicine	on your hands when aid childbirth. ”wash h	west	h	mi	dis	yr
France	**molecules handedness**	*1848*	chemistry	chirality. Essential in biology(lock-n-key). Louis	eFra	h		dis	pm2
France	stars: redshift (moving away, light	1848	sci astro	Doppler-Fizeau effect. Spectral charac has	eFra			dis	yr
Europe	**found neanderthal fossils**	1848	sci history fos		e	h		dis	yr
ngra	colorblindness mentions	*1849*	med sight	ngrams, dupli	westN			dis	pm2
German regions	prove that testicles make a	1849	sci ani biolog	substance that..male sexualcharacteristics. Rer	eGer			dis	yr
France	kleptomania,obsessive stealing	*1850*	psychiatry	by 1880-1890 much klepto psy data, many	eFra			dis	pm2
	discover octopus intelligence.	1850	sci ani biology	plusminus 40y	west			dis	red
the west	propose: Earth’s core cooling.	1850	sci geo	”19th century” (1936 hey core is solid)	west			dis	red
the west	calc/estimate world’s global	1850	sci geo climat	temperature.	west			dis	red
England UK	discover Skara Brae village,	1850	sci history ar	buried neolithic vil. Furniture surviving.	eBri			dis	yr
world	claim: very intelligent are less	1850	sci human	in Common Sense. Plusminus 3600y.	w			dis	guess
Europe	**2nd law of thermodynamics**	1851	physics	entropy. heat moves from high concentrati	e	v		**dis**	yr
France	**bipolar disorder / manic depressio**	1851	psychiatry	mania then depression; brain chemistry abnorm	eFra	h		dis	yr
England UK	**Faraday discovers fields.**	1852	physics	elec/magnet does AT A DISTANCE. Thus radiow	eBri	v		**dis**	yr
England UK	fluorescence discovered	1852	physics	fluorspar mineral when UV light. Emitted alway	eBri			dis	yr
England UK	Joule-Thomson effect, gas cools w	1852	physics	temp change curve of REAL gas/liquid.	eBri			dis	yr
German regions	Magnus effect (by Magnus)	1852	physicsMov	spinning obj moves thru gas or fluid.	eGer			dis	yr
ngra	”potential energy” term rise	*1852*	physicsMov	how much it can fall, how much gravity-acc	westN			dis	pm2
	discover: humans need iodine.	1852	sci human	”argh goiter” thyroid	west			dis	yr
	idea: maybe iodine vs goiter?	1852	sci human	Later proven in 1920s.	west			dis	yr

France	discover: why bread go stale.	1852	science	”starch retrogradation”,from gel to crystal	eFra			dis	yr
England UK	CP cerebral palsy described	*1853*	med dise dev	stiff spastic muscles.	eBri			dis	pm2
France	thermionic emission / Edison effect	1853	physics	heated electrode send electrion or ion.	eFra			dis	yr
the west	**plate tectonics: rock types match**	1853	sci geo	continents have drifted	west	h		dis	yr
the west	glia cells found	*1854*	biology micro	”nerve-cement”	west			dis	pm2
England UK	”carpal tunnel” talk (wrist RSI)	*1854*	med dise	much-hand-using injury, workers, esp keyb	eBri			dis	pm2
England UK	A.R.Wallace’s evolution ideas	1855	biology evo	published. Later Darwin expla NaSelec and	eBri			dis	yr
Europe	Brucellosis bact fever described	*1855*	med dise bac	1887 id bact. Malta goat milk.	e			dis	pm2
the west	**atoms have a spectrum**	1855	physicsAtom	spectroscopy	west	h		dis	yr
the west	**the structure of chemicals**	1855	physicsAtom	Kekule	west	h		dis	yr
German regions	electri in ideal wire, is lightspeed.	1857	physicsEM	if calculate resistanceless wire	eGer			dis	yr
Switzerland	mitochondria discovered	1857	sci ani biolog	organelle	eW			dis	yr
the west	**cuneiform is deciphered.**	1857	sci lang	oldest writing system. 1000 word symbols,	west	h		dis	yr
the west	evolution doesnt optimize species!	1858	biology evo	if Opt then more females, more babymaking for	west			dis	guess
Europe	discover black-body radiation	1858	physics	”hot molecules send light!”. Explains candl	e			dis	red
England UK	absolute zero temperature, more.	1858	physics	Lord Kelvin extrapolated from experiments	eBri			dis	yr
	animals have camouflage (write ab	1858	sci ani biolog	green/brown/tan/spotted/striped, winter bu	west			dis	guess
ngra	**”female orgasm” term**	*1858*	sexuality sci	1966-74 peak talk.	westN			dis	pm2
England UK	**theory of evolution & natural sele**	*1859*	biology evo	deep time; more biology. Darwin. Alfred Russell	eBri	vv		dis	pm2
	gout is inflamm from urate crystals	1859	med dise	”1960s key studies”	west			dis	yr
USA, England	oh that’s what causes hayfever	1859	med dise alle	pollen into person’s eyes/nose/throat.	west			dis	yr
England UK	mind control by worm/fungus	1859	sci ani biology	parasite. Change host ani behav. Eg. ”mus	eBri			dis	yr
Ireland	atmosph greenhouse effect proven	1859	sci geo climate	atmosph gases prevent heatloss (IR bounc	eBri			dis	yr
England UK	carbon fibers mk1	1860	material2	want lightbulb filaments. 1879 Edison uses	eBri			dis	yr
German regions	caesium metal isolated	1860	material2	Kirchhoff	eGer			dis	yr
German regions	endometriosis, pain & infertility.	*1860*	med dise	uterus tissue outside uterus. Used microscope	eGer			dis	pm2
Europe	1st & 2nd law of thermodynam	1860	physics	R Clausius & Lord Kelvin	eW			dis	yr
German regions	thermal/blackbody radiation	*1860*	physicsEM	named this year. 500 C redhot glow.	eGer			dis	pm2
the west	perpetual-motion machi disproven	*1860*	physicsMov	due to entropy; always energy loss. Friction	west			dis	pm2
	science admits that ethnic groups	1860	sci human	do different well in sports. Runners, high j	west			dis	guess
France	bacteriology, no a-bio-genesis	1861	biology micro	Pasteur broth flask, no microbes	eFra			dis	yr
	dis: can separate molecules by	1861	chemistry	capillary action up paper. Dyes first. 1930s	west			dis	yr
ngra	”nematocysts” term begin	*1861*	sci ani biology	stinging worm-orbs on jellyfish?	westN			dis	pm2
the west	**archaeopteryx fossil found.**	1861	sci history fos	Between dino & bird. Teeth, tail, flight feathers.	west	h		dis	yr
the west	atavism, ancestral feature	1862	biology evo	reappears, like tail on human.	west			dis	red
England UK	Down syndrome described	1862	medicine	not just a mental disability, but other parts	eBri			dis	yr
ngra	”kinetic energy” term rise	1862	physicsMov	how hard impact when collide	westN			dis	pm2
Italy	sleep: animals do dream	1862	sci ani biology		eIta			dis	yr
ngra	**”new/another ice age” beginterm**	*1862*	sci geo climate	.	westN	h		dis	pm2
France	altitude-sickness is oxygen lack	1862	sci human		eFra			dis	yr

	discover, sound cancels sound. pl	1863	physics	if super-accurate counter-wave. (1760s the	west			dis	red
Russia (empire)	**periodic table of elements**	1864	physicsAtom	sort elements by elec-grab similarity and	R	h		dis	yr
England UK	stars have a spectrum	1864	physicsOpt	that matches known substances, hydrogen	eBri			dis	yr
Italy	why are stars diff colours?	*1864*	sci astro	Hotter or not. Angelo Secchi, hmm only few typ	eIta			dis	pm2
Russia (empire)	**recessive genes**	1865	biology	Mendel's peas / plants	R	h		dis	yr
USA	petroleum jelly, vaseline (rod wax	*1865*	chemistry	Five years work refining. 1872 patent.	US			dis	pm2
the west	dis: magnetic is EM-waves	*1865*	physicsEM	like electrostatic field. J C Maxwell.	west	h		dis	pm2
ngra	"smog" smoke-fog, early	1865	polEnvEco	industry & heating caused, coal-burning	westN		long	dis	red
the west	brain regions: human damage gives in	*1865*	sci ani biolog	poor Mr Gage; Broca	west			dis	pm2
the west	recessive genes in humans	1865	sci ani biolog	Mendel? Same year notice it in human hair	west		mi	dis	guess
England UK	"Jevons Paradox" discovered	1865	sci human	Efficient coal use → wayyy more coal use, is no	eBri			dis	yr
	tree roots use acid to get minerals	1865	sci plant biol	Julius Sachs et al	west			dis	red
Austria	genetics: Mendel's peas	1866	biology	recessive & dominant traits	eGer			dis	yr
Austria	Mendelian inheritance	*1866*	biology	year published	eGer			dis	pm2
the west	Euro discover chimp & gorilla.	1866	sci ani biolog	**What! Human-like!!!** 15xx oral reports from t	west			dis	red
England, Scotland	**kinetic theory of gases**	1867	physicsAtom	Maxwell	eBri			dis	yr
England UK	**discover: tuatara not lizard.**	1867	sci ani biology	"look, this&that bit NOT in lizard-types!"	eBri			dis	yr
ngra	"sugar is bad for" term begin	1867	sci human	(1893 for you/us)	westN			dis	pm2
ngra	"assortative mating/marrying/dati	1868	biology evo	selection pressure, rich/educated/poor, ath	westN			dis	pm2
France	MS, multiple sclerosis described	1868	med dise dev	autoimmune, neurons' myelin-sheath	eFra			dis	yr
ngra	"tone deaf" musically	*1868*	music	not politics-wise	westN			dis	pm2
German regions	OCD, obsessive-compulsive	1868	psychology	grubelnsucht, questioning ruminating	eGer			dis	yr
	brain science: publish Mr Gage foll	1868	sci ani biology	"hmm those areas destr caused X, but surv	west			dis	yr
England UK	nebulae & galaxies are different	1868	sci astro	William Huggins. Gas-light vs star-light.	eBri			dis	red
France	found Cro-Magnon fossils	*1868*	sci history fos	early large Euro Homo sapiens	eFra			dis	pm2
ngra	"ketosis" termbegin	1869	biology	1920 hugerise. body has no carbs, use fat	westN			dis	pm2
Switzerland	DNA molecules discovered.	1869	biology molecul	call it "nuclein". Don't know its structure bu	eGer			dis	yr
ngra	"normal distribution"	1869	math adv	in statistics. todo.	westN			dis	red
ngra	"essential fatty acids" termbegin	*1869*	med nutri toxin	or 1894	westN			dis	pm2
ngra	"caffeine/ethanol/alcohol metabolism	*1869*	sci ani biolog	terms beginish. science of mild drugs. 193	westN			dis	pm2
ngra	"oxidative stress" talk	1869	sci ani biolog	1909 for sure.	westN			dis	red
ngra	"desertification" term begin (esp	*1869*	sci geo	maybe. 1947 peak1.	westN			dis	pm2
ngra	"male inferti"/"sperm motility" te	*1869*	sci human	1937 major rise. 88 n 2008 peaks	westN			dis	pm2
	discover: gut bacteria manufactur	1870	biology micr	molecules useful to animals. Plusminus 40	west	h		dis	guess
the west	concussion science mark 1	*1870*	medicine2	brain get ouchie	west			dis	pm2
German regions	**understand epilepsy**	1870	psychiatry	it is electrical. (1955 seizure-drugs)	eGer			dis	yr
Spain	**cave paintings were found**	1870	sci history ar	"whaaaat." they say. 1879 also.	eSpa	h		dis	yr
ngra	"premature ejaculation" beginterm	*1870*	sexuality sci	male sexuality problem	westN			dis	pm2
Europe	porphyria disease thinking	1871	med dise dev	maybe descr in -370. 1889 first case publi	e			dis	yr
ngra	(dog) heartworm, dirofilariasis	*1872*	med dise para	mosquitoborne parasite. Lung arteries & he	westN			dis	pm2

German Empire	tennis elbow (RSI repet strain injur	*1873*	med dise	writer/washer/tennis hurt. (1883 tennis-elb	eGer			dis	pm2
Netherlands	Van der Waals forces found	*1873*	physicsAtom	molecule clumping, molecu radius	eW			dis	pm2
France	measure gravitational constant an	1873	physicsMov	Newton's law. Cornu & Baille.	eFra			dis	yr
the west	start to find towns of Trojan War.	*1873*	sci history ar	"Hmm Iliad epic must have some truth." Hi	west			dis	pm2
	discover: ants farm fungus	1874	sci ani biology	eg. leaf-cutter ants, carry food for fungus	west			dis	yr
Europe	**discovery: cells divide.**	1875	biology	and 1882	e			dis	yr
	high blood pressure in humans	1875	med dise dev	without disease X.	west		mi	dis	red
ngra	**eyestrain / eye fatigue**	*1875*	med sight	esp. reading and tiny-crafting	westN			dis	pm2
ngra	"executive function" in brain	1875	psychiatry	"superego" / willpower. todo year	westN			dis	guess
the west	**reproduc needs egg & sperm**	*1875*	sci ani biology		west			dis	pm2
England UK	carnivorous plants are carni, get n	*1875*	sci plant biolo	book by Darwin. Before that, "that's just ar	eBri			dis	pm2
German Empire	anthrax bacteria found. Stays in d	*1876*	med dise bac	Koch. And TB and cholera.	eGer		mi	dis	pm2
German Empire	some bac have dry spore form	1876	med dise bac	for example Anthrax.	eGer		mi	dis	yr
ngra	asbestos lung, terms rise	1877	med dise	1825 asbestosis	westN		xsome	dis	pm2
ngra	"sociopath/s/y" terms begin	1877	psychiatry	or 1911. 1959 rise	westN			dis	red
ngra	some animals survive freezing!	1877	sci ani biolog	then write scifi about human-frozen. 1934	westN			dis	guess
England UK	idea: UV-light to disinfect.	1877	tech,light	sunlight HURTS viruses/bacteria. (NN years	eBri		mi	dis	yr
England UK	photo-analyse horse gaits.	1878	science	first "chronophotography"	eBri			dis	yr
	plasma gas experiments, ionized g	1879	physicsAtom	William Crookes "radiant matter"	west			dis	yr
USA	Hall effect, get voltage	1879	physicsEM	perpendi to both current and magnfield.	US			dis	yr
the west	**rickets children (indoors work kids**	*1879*	rights,child	factory, not enough sunlight to child	west	h		dis	pm2
the west	**observe evolution in action**	*1880*	biology evo	6 year microbe experiment, breed heat-resistar	west	h		dis	pm2
ngra	bacterial / microbial film	*1880*	biology micro	analyzing	westN			dis	pm2
world	ricin poison knowledge. "castor se	1880	chemistry	from beans. Terrorists like it. (ww1 consider as	w			dis	red
France	**piezoelectric effect**	1880	physicsEM	compress crystal, get voltage. Wobble volt	eFra	h		dis	yr
German Empire	slime molds, they amoeba cells.	1880	sci ani biology	1894 more studies.	eGer			dis	yr
	rat population doubles in 47 days	1880	sci ani biology	if zillion tree nuts island.	west			dis	guess
ngra	understand the liver.	1880	sci ani biolog	(1659 more liver anatomy). remove from a	westN			dis	guess
Europe	some people have aphantasia,	1880	sci human	no visualization of what book says.	e			dis	yr
ngra	"sleep paralysis" talk begin	*1881*	sci human	can't move but are aware, often mistaken	westN			dis	pm2
German Empire	chromosomes	*1882*	biology		eGer			dis	pm2
Sweden	caesium metal isolated	1882	mat_metal	liquid at mammal-temperature	eSc			dis	yr
Italy	discover: blood platelets	1882	sci ani biology		eIta			dis	yr
the west	see pollen (microscope)	*1882*	sci plant biology	and understand. 1903 ngrams	west			dis	guess
Russia (empire)	immunology science begins	1883	medicine	the phagocytic cells move.	R			dis	yr
England, Ireland	fluid flow: laminar/turbulent	1883	physics		eBri			dis	yr
German Empire	photosynthesis experi, spectrum	1883	sci plant biology	which colors of light are best for photosynthesis	eGer			dis	yr
German Empire	**"a calorie is a calorie", fat is calorie-**	*1883*	science	not the food grams, but calorie content. M	eGer			dis	pm2
	dental plaque is bad for you,	*1884*	med teeth	a proposal. (1970s a specific bac in plaque	west			dis	pm2
ngra	**"dyslexia" talk begins**	1884	sci human	can't read right. 2013peak. (1938 her dysl	westN			dis	pm2

	acromegaly (too much growth hormon	1885	med dise dev	overlarge hands and feet.	west			dis	yr
the west	**proton particle discovered.**	1885	physicsAtom	Hydrogen atom's nucleus. Hydrogen ion.	west	h		dis	yr
Russia (empire)	**Pavlov's dogs,classical conditioni**	*1885*	psychology	1904 Nobel prize. Salivary glands & digesti	R	h		dis	pm2
	analyze bioluminescence	*1885*	sci ani biology	fireflies, glow-worms. Chemical A and che	west			dis	pm2
the west	discover blood-brain barrier using	*1885*	sci human	it keeps many molecules out. Medicine too	west			dis	pm2
German Empire	**discover treeroots/fungi co-op**	1885	sci plant biology	"oh the fungus gives X and tree gives Y?" Late	eGer	h		dis	yr
the west	progeria, premature aging, very ra	1886	med dise dev	1904 2nd doc described independently. No cure	west			dis	yr
	adrenaline discovered	1886	sci ani biology		west			dis	yr
Eurasia	idiot savant (Down syndrome)	*1887*	hu species	great memory, reduced intelligence	uEura			dis	pm2
German Empire	**electromagnetic waves,**	1887	physicsEM	they travel. Mr Hertz	eGer	h		dis	yr
	human calorie needs talk	*1887*	sci ani biolog	earlier, calories in steam engi	west			dis	pm2
	human reaction time studies	*1887*	sci human	1927 also rise. Brain delay, muscle delay.	west			dis	pm2
German Empire	ricin, ultra poison	1888	chemistry	from castor oil plant	eGer			dis	yr
Austria	liquid crystals (they twist light)	1888	material2	strange material, later LCD screens	eGer			dis	yr
England UK	**calculate correlation.**	1888	math adv	Galton. "these have a relationship"	eBri	h		dis	yr
Europe	**psychopaths (no empathy)**	*1888*	psychiatry	antisocial violator, no guilt	e	h		dis	pm2
	ani which becomes two, cut.	1888	sci ani biolog	Test starfish regeneration systematically	west			dis	yr
ngra	"photographic memory" termbegir	*1888*	sci human	1909 for real. special brain.	westN			dis	pm2
	sunlight causes skin cancer	1890	med dise canc	suspicion/discovery. 1910era blast lab animals with U	west	h	mi	dis	yr
the west	self-harm, mental disorder	*1890*	psychiatry		west			dis	yr
	dis: humans need sulphur	1890	sci ani biology	plusminus 120y. "yeah some amino acids have	west			dis	red
	discover a trinary star (Mizar)	1890	sci astro	(those two are so close they count as one:	unkn			dis	yr
ngra	"aluminum toxicity" termbegin	*1891*	med nutri toxin	or 1911. 1921 rise begin.	westN			dis	red
	this is space-rock. Meteorite piece	1891	sci geo	(no impact crater belief yet)	west			dis	yr
Russia (empire)	**discover virus microbes**	1892	biology micro	filter out bacteria, yet fluid is infectious	R	v	**vmi**	**dis**	yr
ngra	"seasonal depression" beginish	*1892*	psychiatry	1983 risebegin "seasonal affective"	westN			dis	pm2
German Empire	"vacuum ultraviolet" found	1893	physicsOpt	sub-200nm, air stops it	eGer			dis	yr
	adrenaline isolated	1894	sci ani biology	sometimes inject it.	west		mi	dis	yr
	discover: UV light damages skin	*1894*	sci ani biology	Sunlight, not candle/campfire light. 1889 s	west			dis	pm2
ngra	"photosynthesis" term rise begin	1894	sci plant biology		westN			dis	pm2
the west	helium isolated	1895	material	Scot-Swe-Swe	west			dis	yr
the west	fungal disease in humans	*1895*	med dise	discover	west			dis	red
France	hysteria is psychological?	1895	psychiatry	not caused by womb-organ	eFra			dis	yr
the west	**social contagion identified**	*1895*	psychiatry	or 1800?? Hysteria? Madness of crowds?	west	h		dis	pm2
the west	hypertension (blood pressure)	*1896*	med dise dev	with BP measuring gadget.	west			dis	pm2
France	**radioactive materials, discovered**	1896	physicsAtom	Henri Becquerel. Crookes-tube Xray-sende	eFra	v		**dis**	yr
Russia (empire)	**classical conditioning, animals**	*1896*	psychiatry	Pavlov's dogs, if sound then drool	R	h		dis	pm2
the west	ovaries make a hormone	1896	sci ani biology		west			dis	yr
England UK	**malaria: mosquito carries parasite**	*1897*	med dise	Now that we know, mosquito nets and do X to r	eBri	h	vmi	dis	pm2
Japan	isolate dysentery bacteria	1897	med dise bac	"Shiga toxin" term also. Bacteriophage study e	J			dis	pm2

ngra	cathodic rays are electrons	1897	physicsAtom	CRT has electron beam sender	westN			dis	pm2
ngra	”terminal velocity” term begin	1897	physicsMov	maximum falling speed cos air resistance	westN			dis	pm2
	hypothesis: lichen are symbiosis.	1897	sci plant biolo	Beatrix Potter. 1939 experi proof.	west			dis	yr
England UK	krypton&xenon&neon gas isolated	1898	chemistry	neon gives ”nice” light when excited	eBri			dis	yr
the west	zwitterion, dipolar ion molecule.	1898	chemistry	AKA inner salt. This end plus ion that end minu	west			dis	red
the west	**asbestos is lung-hurter.**	1898	mat_rock	factory inspections found deaths.	west		p0	dis	yr
France	**chaos theory**	1898	math adv	all trajectories of X are unstable, chaotic sy	eFra			dis	yr
	mycoplasm disease in animals.	1898	med dise	42ish in human lungs ”atypical pneumonia”	unkn			dis	yr
ngra	”yeast infection” term begin	1898	med dise		westN			dis	pm2
the west	it is fleas that transmit bubonic	1898	med dise bac	plague. 1897 isolated the bacteria.	west		mi	dis	yr
multiple	dis: two types of beriberi	1898	med nutri to›	vitamin-lack: heart vs nerves. ”I ate hulled	mul			dis	red
England UK	**noble gases found**	1898	science	krypton, neon, xenon. Unreactive, electron	eBri	h		dis	yr
	towards absolute zero temperature	1898	tech,sci	21.1 K, liquid hydrogen.	west			dis	yr
ngra	”metal fatigue” terms rise	1899	mat_metal	65ish peak. Machines fail when metal snap	westN			dis	pm2
German Empire	**Planck length, Planck time**	1899	physicsAtom	**is movement and time stepped?**	eGer			dis	yr
ngra	understand gallbladder	1899	sci ani biolog	(1690 some ani surv without)	westN			dis	guess
	claim: labour cost is high in cou X,	1900	business	therefore cou X does inventing and Industrial	unkn			dis	guess
German Empire	radioactive radon gas found	1900	material2	from radium decay	eGer			dis	yr
	sleep disorders disrupt sleep.	1900	sci human	wild time guess	west			dis	guess
ngra	”earlier onset of puberty” (new wo	*1900*	sci human	new talk/worry. Better nutrition???	westN			dis	pm2
the west	**”regression to the mean” concept**	*1900*	science	**combining things goes towards average, e**	west	h		dis	pm2
	tree rings tell of past hot/cold/	*1900*	science	dry/wet/good years. Andrew E Douglass.	west			dis	pm2
German Empire	**what if energy is quantised packe**	1900,97	physicsAtom	proposes Max Planck. Photons.	west	h		dis	month
USA	**virus in humans, found.**	1901	biology micro	”aw geez it’s not just in filthy water”	US	h		dis	yr
multiple	dis: fix beriberi by eating x.	*1901*	med nutri to›	”eat unpolished rice.”	mul			dis	pm2
	discover, humans need fluor.	1901	med nutri toxin	1931 systematic studying. ”1901 huh, dura	west			dis	red
the west	first antagonist-drug.	*1901*	med pill	an antihistamine. But not yet understand	west		mi	dis	pm2
German Empire	**human blood types (A,B,AB,O)**	*1901*	medicine	**Now can do safe blood** transfusions, no ”bloc	eGer	v	**vmi**	**dis**	pm2
West n Cen Europe	thermal/blackbody radiation	1901	physicsEM	equation by Max Planck	eW			dis	yr
the west	adrenaline/epinephrine found	*1901*	sci ani biolog	1904 synthesise	west			dis	pm2
the west	genetics: yeah chromosomes	1902	biology	contain the inherit-stuff	west			dis	yr
ngra	predatory bacteria, eat other bac	*1902*	biology micro		westN			dis	pm2
	proteins are made of amino acids	1902	biology molecul	linear, ”peptide”	west			dis	yr
	science of skin cancer	1902	med dise canc	cancer tumor, mutation	west		mi	dis	yr
England UK	ADHD defined again	1902	medicine2	1932 Germany	eBri			dis	yr
ngra	”massless particle” beginish	1902	physicsAtom	1957 rise	westN			dis	pm2
Europe	radium exposure causes cancer?	*1902*	sci ani biology	wot it do to cells? ”1901 rock in pocket ca	e			dis	pm2
	discover: gut makes signalhormones	1902	sci ani biology		west			dis	yr
ngra	”salt intake” / ”too much salt”	*1903*	med nutri toxin	1757?. human biology discovery & nag. one’s Na M	westN			dis	pm2
USA	**inject adrenaline,restart heart fro**	1903	med tech	powerful hormone. surgeon from Ohio, Gec	US	h	mi	dis	yr

England UK	discover: fish who breathe air.	1903	sci ani biology	Polypterus ”spiracles on top of head”	eBri			dis	yr
	propose: space-rock craters.	1903	sci geo	”that must have been a huge impact”	west			dis	yr
ngra	”dyspraxia/dev coord disorder DCD	*1903*	sci human	term begin. means ”very clumsy”. 86 peak, 20	westN			dis	pm2
Russia (empire)	rocket equation, mass of fuel.	1903	space	Tsiolkovsky. also 1810 a Brit. Send oxidise	R			dis	yr
the west	allergic to the sun, super rare hype	1904	med dise dev	”solar urticaria”, hives. 1916 first documen	west			dis	yr
ngra	”a cold front” weather term	1904	sci geo	1805??	westN			dis	red
ngra	”whale fossils” term begin	*1904*	sci history fos		westN			dis	pm2
Australia	**”lead paint hurts the kids”**	1904	science	says one sci, other sci ridicule him. Lead pois	west			dis	yr
	dis: cryptococcus meningitis	1905	med dise hea	more in 2014 cos AIDS?	west			dis	yr
	sunlight causes human vitamin D	1905	med nutri toxin	Skin synthesises it. Reason for pale skin. Factor	west		mi	dis	red
Russia (empire)	**blood pressure sys & dias**	1905	medicine	”mate, stop eating the salty greasy, your B	R	h	vmi	dis	yr
Europe	Einstein: speed of causality.	*1905*	physics	same as lightspeed. No instant info transfer in	e			dis	pm2
Europe	**Einstein’s four things**	1905	physics	special rela, photoelec, Brownian motion	e	h		dis	yr
the west	Einstein demonstrates that atoms	1905	physicsAtom	do exist. Brownian motion, calculate force	west			dis	yr
the west	**physics of: matter into energy**	1905	physicsAtom	**Einstein. Sun’s mass into light.** Both fusion	west	h		dis	yr
	discover: light is packets.	1905	physicsEM	quantum. particles. Photoelectric effect. Ei	west	h		dis	yr
	mammals need fluor	1905	sci ani biology	esp for the hard teeth.	west			dis	red
	sci of aging, mortality curves	*1905*	sci ani biolog	61: cell in lab,only limited div count	west			dis	pm2
the west	sex from X/Y chromosomes	*1905*	sci ani biolog	Nettie Stevens??	west			dis	pm2
	Hey! Bananas are radioactive!	1905	science	(isotope of potassium) (1995 term ”BED, b	west			dis	guess
	bladder/kidney stones n meat n oxalate	*1906*	med dise	Let’s science that. ”meat,spinach,rhubarb away!”	west			dis	pm2
ngra	**allergy science 2**	*1906*	med dise alle	(Ngrams year allergy word rise)	westN			dis	pm2
the west	Alzheimer-dementia described	1906	med dise heac	examine deceased Alzhei brain.	west			dis	yr
	FTD-dementias, rare, genetic, 2-20	*1906*	med dise heac	”Pick’s disease” name. X and Y atrophy in	west			dis	pm2
	any continuous symmetry, will	1906	physics	give a Conservation Law. Time-sym gives e	west			dis	red
	NAD/NADH in science paper	1906	sci ani biolog	coenzyme in ATP	west			dis	yr
ngra	”metabolic rate”	*1906*	sci ani biolog	22 lots of sciencing it. 1924 brain sizes por	westN			dis	pm2
the west	Earth magnetic field reversal,	1906	sci geo climat	proof that it has happened in the past	west			dis	yr
	study correlation: intelligence n	1906	sci human	good memory. do IQ 60 or 80 have less me	west			dis	red
	Typhoid Mary, forcibly quarantined	1907	med dise bac	spreader of nasty bacteria, infected 51 to	west			dis	yr
Italy	warts are from viruses.	1907	med dise vir	transfer infe by bac-filtered-away liquid. 19	elta			dis	yr
ngra	”herd/population immunity”	*1907*	medicine	def 1914. 2015 peak.	westN			dis	pm2
	claim: time moves at diff rate.	1907	physics	Einstein. Relativity. Gravity field and ultra	west			dis	yr
ngra	”paranoid delusions”	1907	psychiatry		westN			dis	pm2
the west	dog rescue kid f river, rewarded	*1907*	sci ani biology	Then d startpush kids into river,to get meat reward.	west			dis	pm2
USA	variable stars	*1907*	sci astro	Stare at photo plates at Harvard.	US			dis	pm2
USA	uranium-lead dating	1907	sci geo	get age of rocks	US			dis	yr
the west	Goddard, father of modern rocketry	1907	space	proved thrust in vacuum.	west			dis	red
Japan	**MSG, glutamate food flavourant**	*1908*	food tech	from seaweed, l-glutamate. Meaty savoury flav	J	h		dis	pm2
	lightcone, causality reach zone.	1908	physics	”they too far,info/photon can never reach”	west			dis	yr

German Empire	**discover how rainbow works.**	*1908*	physicsOpt	Scattering angles. Gustav Mie.	eGer			dis	pm2
ngra	**cholesterol, mentions**	*1908*	sci ani biolog	ngrams. 89 peak of ”levels of ch”	westN			dis	pm2
Europe	fossils: homo heidelbergensis	1908	sci history fos	discovered.	e			dis	yr
the west	towards absolute-zero temperature	1908	tech,sci	1.5 K temp, liquid helium	west			dis	yr
the west	proof: body’s acid balance	1909	biology		west			dis	yr
England UK	radon gas isolated, radioactive	1909	chemistry	1900 French decayproduct discovery	eBri			dis	yr
ngra	”triboelectric” beginish	1909	physicsAtom	t charging / t series. 2016 rise with t nano	westN			dis	pm2
	discover Burgess Shale fossils	1909	sci history fos	cambrian explosion, good details, half bil y	west			dis	yr
	sickle-cell anemia (genetic)	1910	med dise dev	anemic, red blood cells subpar	west		long	dis	yr
the west	ppl get toxoplasmosis from cats.	*1910*	med dise para	**59rise. parasite alters human appeara n behav**	west			dis	pm2
Europe	human blood types, inherit	1910	sci ani biology		e			dis	yr
Japan	discover vitamin B1 thiamine	1910	sci ani biology	in rice bran.	west			dis	yr
multiple	claim: ugly kid gets less x from	1910	sci soft	teachers and peers. Nice face kid y.	mul			dis	guess
the west	**a virus can cause cancer, cells out**	*1911*	med dise canc	They filtered chicken tumor extracts.	west	h		dis	pm2
Netherlands	superconductor	1911	physics	mercury at 4.2 K. Also material science.	eW			dis	yr
Europe	beta decay puzzle, breaking law of en	1911	physicsAtom	why different speed electrons? Hmm, inver	e			dis	yr
the west	**nuclear model of atom proven,**	1911	physicsAtom	gold foil experiment. (sometimes X hits the	west	h		dis	yr
the west	investigate schizophrenias	*1911*	psychiatry		west			dis	pm2
Norway	south pole reached, expedition	1911	sci geo	Amundsen’s party, then Scott’s party	eSc			dis	yr
ngra	male menopause, does it exist?	*1911*	sci human	1974 much talk. Hormones.	westN			dis	red
Hungary	discover/propose island dwarfism.	*1912*	biology evo	Lower resources, no predators. (large size	eE			dis	pm2
ngra	**salt/electrolyte balance**	*1912*	med nutri toxin	ngrams. huge in 1964. Na Mg K cramping a	westN			dis	pm2
England UK	anticonvulsants, bromide 2	1912	med pill	oh, works on epilepsy?	eBri			dis	yr
	third law of thermodynamics	*1912*	physics	”entropy at 0K is zero”. (zeroth law 30s)	west			dis	pm2
the west	spin of subatomic particles	1912	physicsAtom	(”spintronics” hope N decades later)	west			dis	yr
	anxiety: different types?	*1912*	psychiatry	vague time. 60s/80s GenAnxDis GAD	west			dis	red
	paraphrenia (parano delusions)	*1912*	psychiatry	elder,slow,less heredit than schizoph	west			dis	red
ngra	narcissism diagnosis	*1912*	psychiatry	ngrams year.	westN			dis	red
the west	cosmic rays	1912	sci astro	Nobel prize. ultra-speed protons.	west			dis	yr
France	maillard reaction (meat cooking, g	1912	science	browning meat. 1953 more clarification. Th	eFra			dis	yr
England UK	**isotopes of atoms**	1913	chemistry	different weight, same electron orbits, diff	eBri			dis	yr
ngra	**scrapie, sheep prion disease**	*1913*	med dise	dont know about prions yet. 49 ”scrapie virus”	westN			dis	pm2
ngra	”intersex” rare genitals (medical)	*1913*	med dise dev	year this issue brought to discussion.	westN			dis	red
the west	**electron-share bond atoms into**	1913	physicsAtom	molecules. Bohr. Electron orbit shells...	west	h		dis	yr
the west	gold foil experiment (Rutherford &	*1913*	physicsAtom	small chance alpha particle bounced off N	west			dis	pm2
	dis: death by drink lots water.	1913	sci ani biology	Brain cells swell. Not enough Na Mg K Ca, s	mul			dis	red
England UK	geologic time scale	1913	sci geo	”planet 1.6 bil years old” estimate	eBri			dis	yr
	diamond is one molecule,	1913	science	that’s why super hard. 1796 prove diam is	west			dis	yr
multiple	**shell shock, in war**	1914	psychiatry	massive PTSD. brain refuses to X.	mul			dis	yr
ngra	”vasopressin/oxytocin” talk begin	*1914*	sci ani biolog	love hormones. 1926 big, 50s quite rise	westN			dis	pm2

the west	white dwarf stars, discover pt2	*1914*	sci astro	Eridani B. Next Sirius B.	west			dis	pm2
ngra	”isotopes” of elements	*1915*	chemistry	ngrams rise. 1959 peak. (61 peak ”heavy v	westN			dis	pm2
ngra	”hyperactive” persons, ADHD.	*1915*	psychiatry	can’t concentrate. Or 1898.	westN			dis	pm2
	discover shopping addiction	1915	sci human	”shopaholic”. Get hunter-gath pleasure. Cc	west	h		dis	red
	discover sun poisoning.	1916	med dise dev	”solar urticaria”, hives. 1916 first documen	west			dis	red
German Empire	**general relativity, spacetime.**	1916	physics	**Time is local. Warped spacetime.** All travel	eGer	v		**dis**	yr
the west	schizophrenia is inherited	1916	psychiatry		west			dis	yr
world	female paedophiles / juvenileUsers	*1917*	crime wo kid	5-10% of s offenders? Jump a 13-17yo. Wom was abu	w		p0	dis	guess
the west	bacteriophage research, publish	1917	medicine2	”these viruses infect this bad bac”, look at petri	west			dis	yr
	idea inkling: LASER	1917	tech,high,laser	Einstein. Stimulated emission of photon.	west			dis	yr
	discover: cells need glucose	*1918*	biology molecular		west			dis	pm2
	discover: energy not conserved	*1918*	physics	cos universe expands. Cos energy-conserv	west			dis	pm2
German Empire	hair ice (rare small ice formation i	1918	science	special fungus in woods causes such.	eGer			dis	yr
the west	adsorb / absorb distinction	1918	science	advanced shit. ad-clings-surface. Esp. hydr	west			dis	red
	armor: hmm ceramic-on-steel	1918	war tech	1-2mm enamel layer strengthens	west			dis	yr
ngra	”new isotopes . amount of neutron	*1919*	physicsAtom	term cluster beginish. 34 peak1, 70peak	westN			dis	pm2
ngra	tree ring records of climate.	1919	sci geo	crap weather makes narrow ring.	westN			dis	red
ngra	intersex people, malformed	*1919*	sci human	genitals, hormone-insensitive? Ngrams	westN			dis	pm2
the west	see sun’s gr bend starlight (eclipse)	1919,5	sci astro	Einstein’s spacetime curvature proven, Ein get	west			dis	month
the west	endometriosis, pain & infertility,	1920	med dise	no cure. 7-10% of women suffer. Type-x tis	west			dis	yr
the west	salmonella bacteria,meat egg water m	1920	med dise bac	get diarrhea.	west		p0	dis	red
	placebo effect, modern	1920	medicine	in The Lancet journal.	west			dis	yr
	OCD, obsess-compulsive disorder	*1920*	psychiatry	discovered/classified. duplicate?	west			dis	pm2
	dis: personality trait: Tendency	1920	psychology	for Interpersonal Victimhood, TIV. Chronic	mul	h		dis	guess
	the sun must be nuclear fusion	*1920*	sci astro	not burning coal. 1929 calc, 39 detailed the	west			dis	pm2
	water table rises when place	1920	sci geo	very heavy building (ziggurat, skyscraper)	unkn			dis	guess
the west	asthma and IgE	1921	med dise alle	allergic and non-allergic ast	west			dis	yr
the west	**vitamin D discovered**	*1921*	med nutri toxin	**need it to prevent rickets.**	west	h	mi	dis	pm2
ngra	”reuptake inhibitor” type pills	*1921*	med pill	ngrams. 1966 peak. 1988 big rise	westN		mi	dis	pm2
	find tooth cavity bacteria, karies	1921	med teeth	1890s theory. (sugar into acid into weak-e	west			dis	red
	tooth holes: maybe these bacteria.	1921	med teeth	also 1924. Caries bacteria. From parent’s n	west			dis	yr
ngra	**”pheromones”** talk, anim signals, ma	*1921*	sci ani biology	vague time. 49 peak.	westN			dis	guess
West n Cen Europe	discover vitamin B2 riboflavin	1922	sci ani biology	Ger & Austria.	eGer			dis	yr
	discover vitamin D	1922	sci ani biology	sunlight and bone-health. ”cures rickets”	west			dis	yr
	discover vitamin E tocopherol	1922	sci ani biology	A must-have in pregnancy.	west			dis	yr
	measure human &ani brain rate,	1922	sci ani biology	update tick speed. hu 8 Hz. (insanely paral	west			dis	red
ngra	**”emergent phenomena” term beg**	*1922*	science	or 1897...	westN			dis	pm2
the west	**personality disorder**	*1923*	psychiatry	paranoid/schizoid/histrionic/explosive	west	h		dis	pm2
ngra	**”emergent behavio” term begin**	1923	science	(four wordings) 74 smallpeak,90s main rise	westN			dis	pm2
	wave-particle duality, propose	1924	physicsAtom		west			dis	yr

USA	**discover galaxies.** Really far, not our	1924	sci astro	by Edwin Hubble.	US	h		dis	yr
the west	fossils: australopithecus	1924	sci history fos		west			dis	yr
West n Cen Europe	Schrödinger wave equation	1925	physicsAtom		eW			dis	yr
	discover: particles have ”spin”.	1925	physicsAtom	1922 experiment. It’s not really spinning	west			dis	yr
the west	Pauli exclusion principle	1925	physicsAtom	electron orbits.	west			dis	yr
	measure tissue healing-rates	1925	sci ani biolog	”torn tendon sheath, N weeks”	west			dis	red
ngra	”oxytocin” hormone talk rise	*1925*	sci ani biology		westN			dis	pm2
USA, England	stars are hydrogen and helium.	1925	sci astro	female astronomer proposed/discovered	west			dis	yr
the west	describe Australopithecus	1925	sci human		west			dis	yr
	substit alloy vs interstitial alloy	1925	science	when science it	west			dis	red
	enzymes: are pure protein	1926	biology molecul	(1946 Chemistry Nobel)	west			dis	yr
Finland	dis: hereditary bleeding disorder	1926	med dise dev	von Willebrand disease.	eSc			dis	yr
the west	**quantum uncertainty**	1926	physicsAtom	no trajectory. position OR speed?	west	h		dis	yr
	humans need magnesium	1926	sci ani biology	.	west			dis	red
	earth’s core is molten,convinced	1926	sci geo	a discovery. 36 small inner core.	west			dis	yr
	discover: electrons have phase	*1927*	physicsAtom	electrons interfer in double-slit experiment	west			dis	pm2
	Heisenberg uncertainty principle	*1927*	physicsAtom	cannot simul know speed & position	west			dis	pm2
ngra	”quantum spin” term	*1927*	physicsAtom		westN			dis	pm2
	discover: light photons get	1927	physicsEM	tired/stretched when travel long distance a	west			dis	red
the west	depression has different types?	*1927*	psychiatry	vague time. (life event, medicine-induced,	west			dis	red
	discover vitamin B7 biotin	1927	sci ani biology	”what if we only give eggwhite”	west			dis	yr
the west	**radiation causes harm to living.**	1927	sci ani biolog	Nobel prize. Damages cells.	west	h	mi	dis	yr
Europe	Earth ”2 bil years old”	1927	sci geo	(4.55 bil actually) (3.5-4.1 bil y of life on Ea	e			dis	yr
	write abt food webs.	*1927*	science	Charles Elton’s book.	west			dis	pm2
	discover carni/omnivore who	1928	biology evo	switched to herbivore. Giant Panda Bear. (2	mul			dis	red
	claim: cicadas, then insecticide,	1928	med nutri toxin	then i in groundwater, then schoolkids test scor	west			dis	guess
England UK	antimatter theorized, opposite cha	1928	physicsAtom	Dirac, positron. Annihilates into pure ene	eBri			dis	yr
	state of matter: plasma.	1928	physicsAtom	Gas too hot to hold electrons normally.	west	h		dis	yr
	Skinner psych exp, operant conditi	*1928*	psychology		west			dis	pm2
the west	discover Bonobo chimps	*1928*	sci ani biology	smaller and more peaceful. Museum skull revea	west			dis	pm2
the west	estrogen hormone discovered	1928	sci ani biology		west			dis	yr
	mammals need copper	1928	sci ani biology	Hey, zero-copper rats are anemic!	west			dis	yr
	magn-field direction stratigraphy	1928	sci geo	iron bits settled in this orientation, this	west			dis	red
the west	discover: sedentary hunter-gatherers	1928	sci history ar	existed, Good Fishing sites. One cave in Le	west			dis	yr
	humans need copper	1928	sci human		west			dis	yr
ngra	”flow state” term rise	1928	sci human	human mind feature. 63 rise more. Immers	westN			dis	pm2
	discover: lung surfactant.	1929	biology	”lungs work better with it” ”prematurebaby car	west			dis	yr
	confirm: benzene is ring shape	1929	chemistry		west			dis	yr
ngra	”pathological narcissism” term	*1929*	psychology	a fixed mode of thinking? Me me me.	westN			dis	pm2
Denmark	discover vitamin K	1929	sci ani biology	bloodclotting. (phylloq/menad/menaq/phyt	eSc			dis	yr

ngra	”prolactin” hormone talk rise	1930	sci ani biolog	1976 peak	westN			dis	pm2
	Pluto-planet discovered	1930	sci astro	2006 demoted to dwarfplanet (not round)	west			dis	yr
ngra	”dark matter / dark gravity”	*1930*	sci astro	1906 sugg, 1922 second suggestion	westN			dis	pm2
ngra	”heat death of the universe” term	*1930*	sci astro	expansion and entropy, cooling to everyth	westN			dis	pm2
	claim: ”word-thinkers” persontype	1930	sci human	if org is named GoodThing then org must be go	mul			dis	guess
	discover: heavy water.	1931	chemistry	it’s got heavier hydrogen atoms	west			dis	yr
the west	theory of elec semiconductors	1931	physicsAtom		west			dis	yr
the west	try raise chimp as human, next to	1931	sci ani biolog	toddler became too chimplike	west			dis	yr
	dis: Greenland ice cores go back	*1931*	sci geo	N thou years. ”GRIP 123kya”	west			dis	pm2
the west	PMS talk, premenstrual syndrome	1931	sci human	”it’s a problem, not normalcy”	west			dis	yr
ngra	”superspreaders” begin, hub persc	1931	sci human	disease and memes/ideas/fashion. 2002 ris	westN			dis	pm2
ngra	”micrometeorites” mentions	*1931*	space	they hurt spacecraft. 1869 also.	westN			dis	pm2
	HDFN disease, mother’s antibodies	1932	med dise dev	attack baby’s redbloodcells. 1609 describe	west		p0	dis	yr
ngra	”lead in blood” terms rise	*1932*	med nutri toxin	1970 peak talk. Cos leaded gasoline. 1850	westN			dis	pm2
USA	**antimatter(positron) detected**	1932	physicsAtom	cloud chamber trail	US	h		dis	yr
the west	**neutron discovered**	1932	physicsAtom		west	h		dis	yr
	humans don’t need aluminum	1932	sci ani biology	it’s neurotoxic. (1986 Al in Alzhei brain)	west			dis	red
	humans need iron	1932	sci ani biology	esp from animal meat n blood	west			dis	red
USA	radiowaves from cosmic source	1932	sci astro	from centre of our galaxy, huh.	US			dis	yr
the west	”Oort cloud” farthest part of solar	1932	sci astro	32 propose. 50 Oort revived idea. Billions	west			dis	yr
	discover a no-pain mutation	1932	sci human	”congenital pure analgesia”. (2006 ah that	west			dis	yr
	prolactin hormone does x.	1932	sci human	changes behaviour when breastfeeding?	west			dis	red
ngra	telomeres, cell division counter	*1933*	biology molecul	todo improve	westN			dis	pm2
	energy of chemical bonds, calculate H	*1933*	chemistry	1704 Newton. 1911 ”it could be the electrons.”	west			dis	red
	drugs: agonist vs antagonist	*1933*	med pill	or 63. cling&stim vs cling&not-stim(block). 198	west	h	vmi	dis	guess
	idea: boron/proton fusion.	1933	physics		west			dis	yr
Europe	**nuclear fission idea**	1933	physicsAtom	Szilard chain reaction idea	e			dis	yr
	discover vitamin B5 pantothenic ac	1933	sci ani biology	or 1931. ”it’s everywhere”. 1940 synthesis	west			dis	yr
	radioastronomy mark 1	1933	sci astro	”WTF you doing, Milky Way region?”	west			dis	yr
	biochemistry of fear, todo	1933	sci human	glutamate & GABA & adre & noradre	west			dis	red
ngra	”psychoacoustics” beginish	1933	sci human	perceive sound. 62 peak, 77 peak	westN			dis	pm2
ngra	radon radioac gas in some homes	*1933*	tech,build	natural uranium decay. 1980 big.	westN			dis	pm2
ngra	congenital adrenal hyperplasia CA	*1933*	trans categ	term begin. 49 rise. Girls with CAH and mo	westN			dis	pm2
	mumps is virus (1945 isolate)	1934	med dise vir	try filtered liq from macaque to kid	west			dis	yr
France	”induced radioactivity”, make	1934	physicsAtom	stable element unstable. Bombard with alp	eFra			dis	yr
the west	idea: heavy water moderator.	1934	power nuc	nuclear reactors. ”low neutron absorption”	west			dis	yr
	discover vitamin B6 pyridoxine	1934	sci ani biology	.	west			dis	yr
	lymph nodes, discover purpose	1934	sci ani biolog	Filter microbes from lymph fluid. 1850red c	west			dis	yr
the west	blood-brain barrier in 0-7 yo let	*1934*	sci human	more things through, lead and other toxin	west			dis	pm2
ngra	”dyscalculia” talk begins	1934	sci human	people who can’t math.	westN			dis	pm2

the west	**modern neodarwinism.**	1935	biology evo	with genes.	west			dis	yr
West n Cen Europe	**discover no-cell-wall bacteria,**	1935	biology micro	”L-forms”. Not binary fission, but budding. (n	eW			dis	yr
the west	cystic fibrosis, detect all forms	*1935*	med dise dev	1989 find the problem gene	west			dis	pm2
ngra	**”attention deficit” ADHD/ADD persons**	*1935*	psychiatry	1977 lots talk	westN			dis	pm2
	cortisone & cortisol found	*1935*	sci ani biology		west			dis	pm2
	sleep: circadian rhythm	1935	sci ani biologi	in fruit flies	west			dis	yr
the west	**ice ages are periodic.**	*1935*	sci geo	knowledge about our planet	west	h		dis	pm2
	find fossilized dinosaur tracks.	*1935*	sci history fos	So... not drag belly like lizard.	west			dis	pm2
	concept: your chronotype.	1935	sci human	Early riser, or night-owl?	west			dis	red
the west	**molecular biology**	*1936*	biology molecul	1938 the word. 53 DNA helix.	west	h		dis	pm2
	FOMO, fear of missing out	*1936*	psychology	parties, social media. 2011 rising	west			dis	red
the west	combine evo-biolog w genetics	*1937*	biology evo	Rus man in US, T Dobzhansky.	west			dis	pm2
ngra	photosensitive glass, UV light late	1937	mat_glass	48 hey its useful. 50 peak. Lithium,silver,cerium?	westN			dis	pm2
	discover sulfa-resistant bacteria	*1937*	med dise bac	(1938 in ngrams)	west			dis	pm2
	discover vitamin A. Isolate it.	1937	sci ani biology	1913red, 1920 name.	west			dis	red
	discover vitamin B3 niacin	1937	sci ani biology	nicotinic acid. 1873 isolate.	west			dis	yr
	serotonin discovered	1937	sci ani biolog	special gut cells make it	west			dis	yr
Austria	plants poison competing neigh-	1937	sci plant biolo	bour plants. Roots emit toxin? allelopathy.	eGer			dis	red
	lichen are symbiosis: proven.	1937	sci plant biolo	”I do X and you do photosynthesis”	west			dis	yr
ngra	”meat allergy, allergy/ic to red meat”	1938	med dise alle	terms begin. 85 lil rise, 96 big rise	westN			dis	pm2
the west	**autoimmune diseases found**	*1938*	med dise dev	ng 47. 1900 concept.	west	h		dis	red
ngra	IBS, irritable bowel syndrome	*1938*	med dise dev	polysaccharides? polyols? 1760 ish ”nervous co	westN			dis	pm2
Nazi Germany	**force nuclear fission, discover**	1938,97	physicsAtom	”oh Uranium splits when neutron hits it” 1944 N	eGer	v		**dis**	month
world	Coelacanth fish found,	1938,97	sci ani biolog	thought extinct, but just no fossils of Deep	w			dis	month
Nazi Germany	nuclear bomb breakthrough	1938,97	war tech boom	”oh Uranium splits when neutron hits it, and s	eGer			dis	month
	evolution: kin selection theory	*1939*	biology evo		west			dis	pm2
	discover enzyme that has one	1939	biology molecul	metal atom. (carbonic anhydrase) (urease’	west			dis	red
the west	francium in nature	1939	material2	Periodic table ”complete”. Ac to Fr.	west			dis	yr
the west	**heart attacks: cholesterol**	1939	med dise	linked. Change diet.	west	h	mi	dis	yr
	allergy science 3, histamine talk	*1939*	med dise alle	histamine(tissue amine) in 1910	west			dis	pm2
	blood types: Rh and A,B,AB,O	*1939*	medicine	**now can bloodtr safely on humans.**	west	h	mi	dis	pm2
	the sun is atomic fusion reaction	1939	physics	1920 propose, 39 explain how.	west			dis	yr
the west	transuranic elements	*1940*	material2	ie. neptunium, plutonium	west			dis	pm2
	penicillin: publish rat trials	1940	med pill	drug does kill the deadly bacteria.	west			dis	yr
world	penicillin-resistant bacteria	1940	medicine	later MRSA	w			dis	yr
	declare vitamin B7 a vitamin.	1940	sci ani biology	.	west			dis	yr
ngra	discover, mercury destroys x.	1941	chemistry	zinc/alu/gold/silver. embrittlement amalgamatic	westN			dis	red
ngra	”allergic to cats”	*1941*	med dise alle		westN			dis	pm2
	radiation damages genetic materia	1941	sci ani biology	Therefore... cells cannot live forever?? Cannot r	west			dis	red
	discover: chocolate is poison	*1942*	anim dogs	to cats/dogs.	west			dis	pm2

	epigenetic mark 1, idea	1942	biology	development interaction complexity	west			dis	yr
	good antioxidants in food	*1942*	med nutri toxin	berries, vegetables. 1990 tea mention?	west			dis	pm2
the west	plasma's cells make antibodies	1942	sci ani biology		west			dis	yr
	find Penicillin-resistant bacteria	*1942,92*	med pill	shuffled variants survived drug.	west			dis	mi
the west	**tissue rejection discovered**	1943	med surger	skin grafts problem. Transplant Immunolog	west	h		dis	yr
	third antibiotic: streptomycin.	1944	med pill	found in soil bacteria.	west		mi	dis	yr
	discover vitamin B9 folate	*1944*	sci ani biology	1931 hints. Pregnancy need.	west		mi	dis	pm2
Netherlands	coeliac disease: is it wheat?	*1945*	med dise dev	no wheat – no problem.	eW			dis	pm2
	blind humans use echolocation.	1945	med sight	In 2011 get clear evidence.	mul			dis	red
	test: testosterone is antidepressant	1945	sci human	"yeah relieves symptoms"	west			dis	red
	endometriosis in teenage girls (ti	1946	med dise dev	no cure. Hormones&surgery help.	west			dis	yr
USA	**radiocarbon dating**	1946	sci history ar	get age of organic matter (bone,wood)	US	h		dis	yr
Canada	cooled mammal, longer time	1947	biology	can resuscitate, less cell damage (neurons	west			dis	red
ngra	"SIDS" infant death term rise	*1947*	med dise		westN			dis	pm2
	discover face-blindness.	1947	med dise dev ge	not recognise faces. Brain not work right. "prosopAg	west			dis	yr
	discover Zika virus	1947	med dise vir	in monkey, then in zone's mosquitoes. Ug	west			dis	yr
ngra	"Rehbinder effect" fracture	*1947*	physics	propagation, in air vs in water? Surfactant	westN			dis	pm2
	quantum entanglement talk	*1947*	physicsAtom	"spooky action at a distance" Einstein	west			dis	pm2
	discover dolphin echolocation	*1947*	sci ani biology	(49 record Beluga whale sounds.)	west			dis	pm2
England UK	**tobacco is harmful**	*1948*	drugs tobac	the first major study. Cancer from tar-to-lu	eBri	h	mi	dis	pm2
ngra	**"type 2 diabetes" term begin**	1948	med dise dev	adult onset, insulin resistance	westN			dis	pm2
USA	serotonin discovered 2	1948	sci ani biology		US			dis	yr
	discover vitamin B12 cobalamin	*1948*	sci ani biology	year isolated/needfulness-noticed	west			dis	pm2
ngra	"reverse transcriptase" riseterm	1949	biology molecul	1972 huge.	westN			dis	pm2
the west	"chronic fatigue syndrome" detected	1949	med dise	72? now "myalgic encephalomyelitis". 2004 pe	west			dis	guess
ngra	"nickel allergy" risebegin	1949	med dise alle	37 blip.	westN			dis	pm2
	sickle cell: first molecule disease	1949	med dise dev	1957 find cause. 65 blood transfusion trea	west			dis	yr
the west	**conversion disorder / FNSD**	*1949*	psychiatry	Func Neurol Symptom Disorder 1962	west	h		dis	red
ngra	"psychopathology in animals"	1949	psychiatry	psychopathy? Depression? Brain lesions?	westN			dis	pm2
the west	**Big Bang theory of cosmos**	1949	sci astro	from tiny beginning, all matter&energy. W	west	v		**dis**	yr
	H-G humans are tallest near	1950	hu species	Earth's poles. (be larger in cold, small in hc	w			dis	guess
	nickel allergy (contact dermatitis)	*1950*	med dise alle	earrings cause problem. Mercury/chrome/gold/c	west			dis	pm2
ngra	"fructose intolerance" rise term	1950	med dise dev	avoid so many products. (HFI, aldolase B) (rece	westN			dis	pm2
	tobacco causes heart disease	*1950*	med nutri toxin	toxins into lungs and blood	west			dis	pm2
the west	**tobacco causes lung cancer**	*1950*	med nutri toxin	and damages heart bloodvessels.	west	h		dis	pm2
ngra	**"antibiotics resistant" termbegin**	*1950*	medicine	1969 rise, 2006 rise	westN			dis	pm2
USA	**nuclear magnetic resonance**	1950	physicsAtom	spectrum-analyse atom nucleus, get MRI image	US	h		dis	yr
	claim: blind cannot have	1950	psychiatry	schizophrenic stuff. (2014: yeah we could r	west			dis	guess
ngra	"availability/recency bias"	*1950*	psychology	mis-thinking cos X. 1982 huge.	westN			dis	pm2
	discover dolphin audio comms	*1950*	sci ani biology	7-15 kHz, humans hear. "oh it's more comp	west			dis	pm2

	comets are primordial ice & dust(mine	1950	sci astro	(1866 comets & meteors similar)	west			dis	yr
multiple	N/S America lost, cos late to civ/farm/	1950	sci history	popul-count-race. See ”China/India invent	mul			dis	guess
	bad with speech, correlates with	1950	sci human	criminality and jailtime. (low-IQ, defective	mul			dis	guess
	discover testosterone sensitivity,	1950	sci human	some have more/less/broken receptors.	west			dis	yr
ngra	”antinutrients” beginish	1950	science	toxins. Chem that hinder digestion or somethin	westN			dis	pm2
	false discovery: stress causes	1951	medicine2	stomach ulcers. (really it’s bacter infec, 1	west			dis	red
	lone neutron will decay in 15m.	1951	physicsAtom	Beta decay. Mean lifetime 14.63 minutes.	west			dis	yr
	Munchhausen syndrome.	1951	psychology	make up illnesses or inflict a condition upon sel	west			dis	yr
	hiberna animals resist radiation	*1951*	sci ani biology	(fewer blaa-compounds, more antioxidants	west			dis	pm2
the west	ice-core-samples tell of past	*1951*	sci geo climat	pollen/dust/climate. 1958 more.	west			dis	pm2
	science of itchiness.	1952	sci ani biolog	”pruritus” ”itch-specific nerve fibers” ”his	west			dis	red
	discover REM sleep stage.	1952	sci human	”is he dreaming right now?” 53 publish	west			dis	yr
England UK	**DNA’s structure discovered**	1953	biology molecul	so that’s how genes are stored, double hel	eBri	h		dis	yr
ngra	”conformity studies” rise begin	*1953*	psychology	1970 peak, 2014 peak	westN			dis	pm2
	analyse deep sea fish	*1953*	sci ani biolog	like 2 km deep, use a submarine.	west			dis	red
	EEG tells of REM sleep,not just	1953	sci ani biolog	humans have. Mechanism to keep visual c	west			dis	yr
ngra	”cognitive bias”	*1953*	sci human	science of human thinking, see also Confirr	westN			dis	pm2
	lupus: antinuclear antibodies	1954	med dise		west			dis	yr
the west	Social Learning Theory	*1954*	psychology	see Other get punished, learn	west			dis	pm2
ngra	**metal-eating bacteria**	*1955*	biology micro	oxidise the Pure Metal. 2020 find a Mangar	westN			dis	red
USA	antiproton detected	*1955*	physicsAtom	”look at the antimatter!”	US			dis	pm2
	discover: melting point of atoms,	1955	physicsAtom	At this heat, no atom can hold electrons. P	west			dis	guess
	brain receptor counts change	1955	sci ani biolog	in drug abuse. The mechanism of addictior	west	h		dis	red
	discover whale sound comms	*1955*	sci ani biology	”oh, humpback whale shouts.”	west			dis	pm2
	humans need molybdenum	*1955*	sci ani biology	”xanthine oxidase enzyme needs”	west			dis	pm2
	understand the spleen	*1955*	sci ani biolog	filter blood, recycle iron, reservoir for blo	west			dis	pm2
the west	discover melanocortin receptors	1955	sci human	POMC, pigmentation, ACTH. (1993 clone of	west			dis	red
	ethnic group & blood pressure. A d	1955	sci human	60s begin studies. (Africans, South Asians)	west			dis	red
ngra	”andropause” men hormones	*1955*	sci human	less testosterone in veins, flabby	westN			dis	pm2
	discover: mitochondria do age.	1956	biology	Or, they cause aging, cos Free Radicals.	west			dis	red
	radiation-resistant bacteria, disco	*1956*	biology micro	massive DNA-repair tech. especially Deino	west			dis	pm2
	proteins, these 20 aminoacids	*1956*	biology molecul	1935 found last of em	west			dis	pm2
	discover: favism anemia	1956	med dise dev ge	when eat fava beans. Ppl who lack that on	west			dis	yr
USA	**naturelaws violate mirror symmet**	1956	physics	”parity violation”. Beta decay proof. ”the Wu e	US	h		dis	yr
	disprove parity conservation.	1956	physicsAtom	Wu experiment. Cobalt beta decay in magfield	west			dis	yr
	neutrinos detected	1956	physicsAtom	breeder reactor? 1000x of nature?	west	h		dis	yr
ngra	”addictive personality” term	*1956*	psychiatry	ngrams. Easily becomes alcoholic?	westN			dis	pm2
the west	dolp/whale has echolocation	1956	sci ani biology		west			dis	yr
	epigenetic mark N, proof	1957	biology molecul	in e-coli genes, lac operon	west			dis	yr
	dis: transfats are bad for you.	*1957*	med nutri toxin	”argh margarine and crisco”. 70s animal-s	west		mi	dis	pm2

	the elements are star-forged	*1957*	physicsAtom	nuclear fusion inside stars, and more viol	west		dis	pm2
Sweden	dopamine discovered	1957	sci ani biolog	then reserpine-drug.	eSc		dis	yr
	dis: humans need selenium	1957	sci human		west		dis	yr
	”junk DNA” pondering	*1958*	biology molecul	mutation rate, how many genes. Neutral-theory	west		dis	pm2
	discover parvoviruses	*1958*	med dise vir	78 canine p. spreading worldwide	west		dis	pm2
the west	human growth hormone	1958	med pill	acquire from pitui gland, for studies. trials. ext	west		dis	yr
ngra	antibubble (not gas on both sides)	1958	physics	liquid A, thin gas membrane, liquid B	westN		dis	guess
USA	melatonin hormone discovered	1958	sci ani biolog	frog skin becomes lighter	US		dis	yr
	some reptiles can make babies	1958	sci ani biology	without male contribution. (maybe env-pre	west		dis	red
India	discover: cholera’s toxin proven	1959	med dise bac	(not many Indian discoveries)	In		dis	yr
France	Down syndrome, progress.	1959	med dise heac	chromosome count found	eFra		dis	yr
ngra	”pseudoaddiction” medical talk	1959	medicine2	begin. 2008-2011 peak	westN		dis	pm2
	prove: time moves at diff rate	1959	physics	when in gravity well, or near lightspeed. Ye	west	h	dis	yr
	dis: humans need chrome	1959	sci ani biology		west		dis	yr
	dis: humans need manganese	1959	sci ani biology	(1898 discover plants need.)	west		dis	red
the west	dis: some turtles have cloaca	1959	sci ani biolog	bursae-sac respiration. butt-waterbreathin	west		dis	yr
	discover spiders use hydraulics	1959	sci ani biology	not muscles. Very alien.	west		dis	yr
	blue stars are giant stars	*1959*	sci astro	1918 maybe, or 1925	west		dis	guess
	discover: caffeine x the y receptors	*1959*	sci human	blocks A2A adenosine receptor. (1990 isolate t	west		dis	red
ngra	”quarks” terms	*1960*	physicsAtom	65 rise, 75 rise, 1986 peak	westN		dis	pm2
	claim: politics is useless as a	1960	polModern	truth-seeking or rational-coordination. Polit	unkn		dis	guess
ngra	”autistic boy” term big rise	*1960*	psychiatry		westN		dis	pm2
	discover: chimps do eat meat.	1960	sci ani biology	”yum bush-pigs & red colobus monkeys”. Previ	west		dis	yr
	space-rock craters, definitely,	1960	sci geo	now scientists believe X is not volcanic, sa	west		dis	yr
	reaction time studies, more.	*1960*	sci human	”are you a race driver?	west		dis	pm2
multiple	cannot make realtime speech	1960	sci lang	translator! Word order way too diff betwee	mul		dis	guess
the west	mRNA (messenger RNA) found	*1961*	biology molecul	”cytoplasmic messenger”	west		dis	pm2
ngra	brain: micro-strokes	1961	med dise heac	1980s rise.	westN		dis	red
	dis: herpes virus reactivates	1961	med dise vir	(virus hiding in x zone)	west		dis	red
	dis: self-fertilising vertebrate.	1961	sci ani biolog	Mangrove rivulus. Female makes both egg	west		dis	red
	dis: this ani species reproduce	1961	sci ani biolog	from single female. Vertebrate, not beetle	west		dis	red
the west	**explain cellular aging**	*1962*	biology	Mr Hayflick. 40-60 divisions max on cells. Te	west	h	dis	pm2
	chaos theory, Lorentz	*1962*	math adv	attractor in N-dim state-space, says this m	west		dis	pm2
	maple bark disease	1962	med dise	fungus dust at sawmill, into lungs	west		dis	yr
	mycoplasma pneumoniae diseased	1962	med dise		west		dis	yr
	clone a frog from x cells with	1962	sci ani biology	tadpole gut cell nucleai.	west		dis	yr
the west	Euro discover chimps do hunt.	*1962*	sci ani biolog	Ape behav science improves.	west		dis	pm2
	moth makes ultrasound to	1962	sci ani biology	hinder moth-eater bat. 2013 ”yeah enough	west		dis	yr
ngra	”metallic asteroid” term begin	1962	sci astro	gold in them there hills	westN		dis	pm2
ngra	”autohybridisation” risebegin	1962	science	huh, it does exist.	westN		dis	pm2

RussiaUSSR	principles of semiconductor LASER	*1962*	tech,high	”p-n junction” sends photons	R			dis	pm2
the west	glucose vs fat burn (Randle Cycle)	1963	biology molecul	signal chemicals like citrate	west			dis	yr
the west	**mitochondrial DNA found**	1963	biology molecul	encodes 13 proteins	west	h		dis	yr
	discover, humans need zinc	1963	med nutri toxin	located a/some zinc-deficiency persons	west			dis	yr
	dis: humans need zinc	1963	sci ani biology	1961 discover a zinc deficiency man	west			dis	yr
ngra	”dopaminergic” term begin ish	1963	sci ani biolog	dopamine pathways n receptors	westN			dis	pm2
the west	quasar (gal.core accreti disc)	1963	sci astro	2-4 billion lightyears away	west			dis	yr
the west	plate tectonics, final pieces	1963	sci geo	no pun intended	west			dis	yr
ngra	”microtubules” term rise	1964	biology	1932 some. Brain stuff??	westN			dis	pm2
the west	evolution: kin selection	*1964*	biology evo	Hamilton popularised, 1967 Price	west			dis	pm2
	some cancers are infection-	*1964*	med dise canc	caused. HPV and...? H Pylori gastric cancer	west	h		dis	pm2
	discover FeLV retrovirus	1964	med dise vir	feline leukaemia virus.	west			dis	yr
	EBV Epstein-Barr virus isolated	1964	med dise vir	was in a tumor lump.	west			dis	yr
ngra	”cracked tooth syndrome” rise	1964	med teeth	present peak.	westN			dis	pm2
	discover: Hagedorn temperature,	*1964*	physicsAtom	melting point of atom nuclei. trillion degr	west			dis	pm2
the west	**idea of quarks**	1964	physicsAtom	components of proton&neutron	west			dis	yr
	mobile RNA in plants	1964	sci plant biolo	plasmids??? 1964? 2000?	west			dis	red
	pesticides: DDT hurts birds	*1965*	food agri tech	fish-eating birds, poison accumulate.	west	h		dis	pm2
the west	found promethium in nature.	1965	material2	**Periodic table is ”complete”.**	west			dis	yr
	brain-eating amoeba, Naegleria fowler	*1965*	med dise para	don’t dive into sus pool, get amo into nose	west			dis	pm2
the west	**some are lactose-intolerant**	*1965*	med nutri toxin	had wrong global assumption for ages	west	h		dis	pm2
	sleep apnea studying, mark 4	*1965*	medicine2	breakthrough	west			dis	pm2
	lactoferrin in mother’s milk	*1965*	sci ani biolog	human baby immune system stuff	west			dis	pm2
USA	cosmic microwave background	1965	sci astro	BigBang radiat. found by accident	US			dis	yr
	claim, CO2 feedback effect is	1965	sci geo climate	so great it causes big global warming. (counter	west			dis	guess
ngra	”female ejaculation” term, squirting	*1965*	sexuality sci	female gland. 1982 lots talk. (it’s just urine in p	westN			dis	pm2
the west	**evolution: gene-centered**	1966	biology evo	new view; not indivi, not species	west			dis	yr
world	”bird flu” worry begins	*1966*	med dise vir	avian influenza virus, expect it to jump	w			dis	pm2
	proof: mammal can breathe liquid,	*1966*	sci ani biology	perfluorocarbon/decalin carries oxygen	west			dis	pm2
ngra	”androgen insensitivity”	*1966*	sci ani biolog	possibly homosexuality/intersex condition	westN			dis	pm2
ngra	”neurotransmitter regulation”	1966	sci ani biology	risebegin. Same year ”x neurotransmitters	westN			dis	pm2
	”Baumol’s Cost Disease”	*1966*	sci econom	why prices rise in X sector. Stagnant produ	west			dis	pm2
	Baumol’s Cost Disease	1966	sci econom	low-prod labor-intensive sectors’ wages ri	west			dis	yr
	nerve cell can use ketone	1967	biology	instead of glucose. thus, not die so easily o	west			dis	yr
ngra	”carcinogenic foods” talk begin	1967	med dise canc	fried, aromatic... 1936 blip	westN			dis	pm2
world	Marburg virus found, 88% fatal	1967	med dise vir	from Africa grivet-monkey & bats, German	w		p0	dis	yr
	genital herpes described	*1967*	med dise vir	around 12% of US has HSV-2 virus	west			dis	pm2
	dis: selenium bonds to eaten	*1967*	med nutri to	fish mercury. ”insoluble Hg-Se”	west			dis	pm2
Austria	bees’ waggle-dance decoded.	*1967*	sci ani biolog	direction & distance relative to sun? 73 Nol	eGer			dis	pm2
	try teach apes sign language	*1967*	sci ani biology	Syntax or not, disputed. 72 Koko.	west			dis	pm2

USA	pulsar (pulsating radio star)	1967	sci astro	rotating neutron star, radio signal	US			dis	yr
the west	gamma ray bursts, found	1967	sci astro	1991 they're extragalatic. *2009* they are n	west			dis	yr
the west	neutron stars, found	1967	sci astro	pulsar, radio EM spinning	west			dis	yr
	proof of neutron stars.	1967	sci astro	when find pulsars.	west			dis	yr
the west	**cell biology begins**	*1968*	biology	Romania-US man Mr Palade	west			dis	pm2
	bact who resist many antibiotic	*1968*	medicine	MRSA problem in hospital	west			dis	pm2
	find ruins of Ebla city. 1964.	1968	sci history	who had like a 400y run. Italy univ guys f	mul			dis	red
	mushrooms are not plants	1968	sci plant biolo	1955 one man challenges.	west			dis	red
the west	**ADHD defined, mental disorder**	1969	psychiatry	or type of brain.	west	h		dis	yr
multiple	lucid dreaming, described, modern	1969	sci human	controlling one's own dream visions. probably began	mul			dis	yr
	nicotine: Nesbitt's paradox	1969	science	first stim, adding dose relaxes	west			dis	yr
	mitochondria are ex-bacteria	1970	biology	confirming old theory	west			dis	yr
world	Monkeypox zoonosis detected	1970	med dise vir	Congo.	w			dis	yr
ngra	"estrogen insensitivity"	*1970*	sci ani biolog	intersex person ensues?	westN			dis	pm2
	claim: sports make women horny	1970	sexualityW	(testosterone secretion?)	unkn			dis	guess
	discover how Aspirin works.	1971	biology mole	John Vane. Interfere w COX enzyme. Also h	west			dis	yr
	that's how aspirin thins the blood	1971	med pill	it hinders synthesis of A and B in platelets.	west			dis	yr
	detect a black hole candidate.	1971	sci astro	in Cygnus, a bright star orbits an invisible	west			dis	yr
ngra	gemstone analysis, more	*1971*	sci geo	ngrams. 1930 also.	westN			dis	red
	evolution: kin selection theory	*1972*	biology evo	1980 peak discussion?	west			dis	pm2
	norovirus found	*1972*	med dise vir	in stool. Caliciviridae.	west		p0	dis	pm2
	quantum entanglement, proof	1972	physicsAtom		west			dis	yr
	good stress, eustress	*1972*	psychology	"some stress is good for you" theory	west			dis	pm2
	elephants use tools.	*1972*	sci ani biolog	use branch to scratch self (wolf cannot). Sv	mul			dis	pm2
USA	fifth moon-landing mission carry	1972	sci ani biology	dormant lifeforms,like eggs. Cosmic rays ouch	US			dis	yr
	homing pigeon: study it	*1972*	sci ani biolog	tape magnet to head? Magnetoreception.	west			dis	pm2
	human memory: episodic vs semantic	*1972*	sci ani biolog	can lose one type of memory	west			dis	pm2
ngra	"Garcia effect" termbegin	1972	sci human	AKA "conditioned taste aversion". 2015peak	westN			dis	pm2
world	toxic mercury accum in fish	*1972*	science	So limit eating of predator fish.	w			dis	red
	no stable state in evolution!	1973	biology evo	cos always prey-predator tech race. (ask crococ	west			dis	yr
	"radical pair mechanism"	*1973*	chemistry	**magnetic field affecting chemistry!**	west			dis	pm2
	humans need selenium	1973	med nutri toxin	fish, shrimp, meat, liver, brazilnuts, wholeg	west			dis	yr
multiple	blindsight (no conscious seeing)	1973	sci ani biolog	when brain damage or tumor. visual stimu	mul			dis	yr
the west	brain receptor counts change!	*1973*	sci ani biolog	mechanism of addiction. 2008 meth addi mech	west			dis	red
the west	discover opioid receptors	1973	sci ani biolog	(50s hypothesi)	west			dis	yr
the west	new worry: Gamma Ray Burst migl	*1973*	sci astro	rare galactic explosion, huge black hole ini	west			dis	pm2
ngra	"gravitational lensing"	*1973*	sci astro	1973 ngrams, 84 lots	westN			dis	red
multiple (known)	discover: low IQ correlates with	1973	sci human	higher crime-doing. Prone to violence? 94	mul			dis	red
	discover human parvovirus, red ch	1974	med dise vir	50-70% pop are immune	west			dis	yr
	rotavirus found	*1974*	med dise vir	cattle & kids diarrhoea virus	west		p0	dis	pm2

world	”Stockholm syndrome” theory	*1974*	psychology	start to side with your kidnapper/abuser. Not proven.	w		dis	pm2
	dis: beer gut syndrome.	*1974*	sci human	microbes make ethanol in gut. 1946 in one	mul		dis	pm2
the west	change-blindness,	1974	sci human	too gradual change to notice. Country and	west		dis	red
	topic: iron-reinf concrete rusts in	1975	material	N years. ”1982 experimental work” ”just us	west		dis	red
	let’s measure vulture stomach acid	1975	sci ani biology	”hmm pH of 1, super acidic. Viruses and ba	west		dis	yr
the west	En Niño weather pattern	*1975*	sci geo climate	or earlier. warm zone	west		dis	pm2
the west	dis: city w N babies, can spread	1975	sci human	plague-class microbe forever. Villages not!	west		dis	red
ngra	”runner’s high” risebegin	*1975*	sci human	endocannabinoids or endorphins. 49 begin	westN		dis	pm2
	dis: some flowers thermogenic,	*1975*	sci plant biol	to attract pollinators vision. Neotropical, b	west		dis	pm2
the west	legionella bacteria, swimming pools	*1976*	med dise bac	Legionnaires’ Disease. 1977,1 identified th	west		dis	pm2
	Legionnaires disease, discover.	1976	med dise bac	3-10% fatality rate. flu-like, use antibiotics.	west		dis	yr
world	Ebola virus found, 50% fatal	1976	med dise vir	Or 88%. Sudan & Congo.	w	p0	dis	yr
	dogs: parvo virus	1976	med dise vir	78 most of Europe. 1979 have a vaccine	west		dis	yr
	there’s good n bad cholesterol.	1976	med nutri toxin	**”don’t eat eggs!!!!!”** (1955 dis bad chole)	west		dis	red
	sleep apnea studying	*1976*	medicine2		west		dis	pm2
	dis: all-female lizard species,	1976	sci ani biolog	Whiptail Lizard. 100kya began.	west		dis	red
	discover hot-vent lifeforms, volcanic	*1976*	sci ani biology	*life without photosynthesis or predation,*	west	h	dis	pm2
USA	**discover: archaea microbes**	1977	biology micr	hardcore science.	US		dis	yr
the west	**extremophile microbes found**	*1977*	biology micro	deep sea hot mineral vents. Clams, tube w	west	h	dis	pm2
USA	Lyme disease, tickborne	1977	med dise bac	rheu arthrit in young. 83 bact found	US		dis	yr
	discover: honey bad for babies, bo	*1977*	medicine	botuli bac spores can grow in baby gut. 19	unkn		dis	pm2
	Munchhausen syndrome by proxy.	1977	psychology	”my child has x! Therefore me <gain y>.” (che	west	h	dis	yr
	aging: caloric restriction	*1977*	sci ani biolog	in nematode worm. Starvation makes live l	west	mi	dis	pm2
	aging: telomeres	1978	biology	Elizabeth Blackburn, telomerase	west		dis	yr
ngra	”mate guarding” term rise	1978	biology evo	concept, male try prevent F infidelity.	westN		dis	pm2
	new worry: cosmic or other photon	*1978*	compHW	could mangle computer memory/data	west		dis	pm2
ngra	”sugar is bad for you/us”	*1978*	med nutri toxin	term big rise. Inflammation. Fat metaboli	westN		dis	pm2
	melting point of atom nucleai,	1978	physicsAtom	heat 1.8 x 10 to 12th power kelvin, too hot	west		dis	red
ngra	”gluonic force” term begin	1978	physicsAtom	something quarks pairs	westN		dis	pm2
ngra	**new worry: nuclear winter, from n**	*1978*	polModern	1986 peak. 1956 also.	westN	h	dis	pm2
USA	Chicxulub crater found	1978	sci geo	dino-wiping asteroid’s crater	US		dis	yr
	cells have receptors (proof)	*1979*	biology	(only took like 80y to gain proof)	west		dis	pm2
	retrovirus, in humans	1979	biology micro	virus uses Reverse Transcriptase	west		dis	yr
the west	microRNA, non-coding RNA, terms beg	1979	biology molecul	more cogs in DNA-machinery. 2005 rise	west		dis	red
	gluons exist, evidence	1979	physicsAtom	at PETRA particle collider	west		dis	yr
	bulimia disorder	*1979*	psychiatry	”a phase of anorexia”. Over-eat then purge typ	west		dis	pm2
	dis: rings of Jupiter. Voyager probe.	1979	sci astro	Not Saturn’s obvious ones. Fine dust from	west		dis	yr
	cells: integrins found	1980	biology	cells cling to each other; cancer.	west		dis	yr
ngra	”horizontal gene transfer” rise	1980	biology micro	bacteria exhange plasmid rings	westN		dis	pm2
	find DNA transposons	*1980*	biology molecul	parasitic sections that dont assist organism	west		dis	pm2

	”red light therapy” for skin health	1980	medicine2	supposedly boosts mitocho function. Hair g	unkn			dis	guess
the west	no you can’t train animals to talk.	1980	sci ani biology	great-apes sign language stuff. No gramma	west			dis	red
ngra	”dark energy” expansioncauser	*1980*	sci astro	also ”vacuum energy”	westN			dis	red
the west	KT-boundary iridium,extinction eve	1980	sci geo	in 2010 hypothesis was accepted	west			dis	yr
	cou accumulate complexity &	1980	sci soft	bureaucracy & excess laws. ”sclerotic, need rev	unkn			dis	guess
	claim: bicycle saddle damages	1980	tr_bicycles_mot	men’s bits. 200x study maybe.	west			dis	guess
	”telomeric func can be transferred”	1981	biology molecul	science of aging	west			dis	yr
ngra	**”oxygen radicals” worry rising**	*1981*	med nutri toxin	**fight with food’s antioxidants**	westN	h		dis	red
	humans need boron??	1981	sci human	”it alleviate x” (1923 discover plants need.)	west			dis	yr
ngra	”glycemic index / load” term	*1981*	sci human	blood sugar rises diff from food X. 2010 pe	westN			dis	pm2
Australia	find stomach ulcer bacteria, helico	1982	med dise	man proved it is bac, by drinking the bac	west			dis	yr
	mutations in ion channel genes	*1982*	med dise dev	might be cancer-related?	west			dis	pm2
world	new worry: ozone layer hole	*1982*	sci geo	1989 ban CFC manufacturing. 1990 peak t	w			dis	pm2
ngra	”hunger/satiation hormones”	1983	biology molecul	ghrelin 2000. 1943?	westN			dis	red
ngra	**RSI, repetitive strain injury**	1983	medicine2	Ngrams	westN			dis	pm2
USA	**Seasonal Affective Disorder**	1983	psychiatry	winter depression discovered.	US	h		dis	yr
	animals do rape, discovery	*1983*	sci ani biology	especially ducks and giraffes	west			dis	red
the west	study homosexu in animals (biolog	*1983*	sci ani biology		west			dis	pm2
the west	educa fallacy: kinesthetic learner, lea	*1983*	sci human	false theory, debunked in 2009. Seeing sty	west			dis	pm2
the west	W and Z boson proven at CERN	1983,1	physicsAtom	particle collider. UA1, UA2.	west			dis	month
	bright light for seasonal depression	*1984*	medicine	brain hormones. Light gadget.	west			dis	pm2
	dis: elephant infrasound comms	1984	sci ani biology	1984 discovered. 5-14 Hz. 84-87 analyze	west			dis	pm2
the west	fullerenes	1985	chemistry	ball-shaped carbon molecules	west			dis	yr
the west	swimming hall chlorine makes	*1985*	mat_metal	stainless steel corrode much faster. Ceiling bits	west			dis	pm2
	Alzheimer-dementia amyloid	*1985*	med dise heac	chemistry of placque buildup	west			dis	pm2
	CP, cerebral palsy 70%/30%	*1985*	med dise heac	only 20% of CP is birth-complications	west			dis	pm2
	claim: if democracy, cou goes	1985	polModern	SocDem welfare-state. Cos majority are w	unkn			dis	guess
world	gambling addiction,pathological	*1985*	psychology	identified	w			dis	pm2
	discover: male ducks rape a lot.	1985	sci ani biology	Thus, female ducks have evolved x, to less	unkn			dis	red
	see pluto’s moon transit in front	*1985*	sci astro	of Pluto. Thus can calculate mass of.	west			dis	pm2
	strontium in teeth will tell	*1985*	sci history ar	if skeleton from same/diff region. ”okay th	west			dis	pm2
	claim: men get proper/harsh feedback	1985	sci human	loop. Wo get suckup/glazed/false praise feedback. Mo	unkn			dis	guess
world	taste: umami (brothy/meaty)	1985	sci human	recognised by scientists. Garum in Rome.	w			dis	yr
	dis: correlation intellige / height.	*1985*	sci human	(r is 0.17 to 0.4 in girls) (2001 less correlation	west	h		dis	pm2
the west	dis: aspirin fights some cancers.	1986	med dise car	”hmm lower inci of colorectal cancer”	west			dis	red
	cats: FIV virus	1986	med dise vir	2.5 to 4.4% of world’s cats carry. Thus muc	west			dis	yr
	”bread/grain bad for health!” pasta	1986	med nutri toxin	measure insulin response. 2021 one paper	west			dis	red
	observe ”quantum jumps”	*1986*	physicsAtom		west			dis	pm2
the west	**oversensitive in anxiety**	*1986*	psychiatry	instead of ”fear of fear”. Palpitations.	west			dis	pm2
	superconductor, ”hightempe”	1987	material	like at liquid-helium temp?	west			dis	yr

ngra	”super emitters” beginterm	1987	med dise	ppl who exhale lots of virus??	westN			dis	pm2
	Mediterr diet is good for you.	1987	med nutri toxin	or a fad. Olive oil and fish, greens.	west			dis	yr
USA	elephants use infrasound comms	*1987*	sci ani biology	(1988 according to Ngrams) 4km range	US			dis	pm2
	discover gambling addiction	1987	sci human	pleasure from anticipation & success. 198	west			dis	guess
ngra	”GLP1” term risebegin	1987	sci human	”glucagon-like peptide 1”. Agonist for tha	westN			dis	pm2
	discover: high amount male	*1987*	trans categ	transvestites in sexual-stuff killings. (their	west		p0	dis	pm2
	alcohol addiction’s mechanism.	1988	drugs mild	many things to find, takes decades.	west			dis	red
	find one deafness gene.	1988	med hear	”non-syndromic hearing loss” in blah-inheritanc	west			dis	yr
	dis: NOT need nickel in diet.	1988	sci human	(1987: barley plants need it)	west			dis	guess
ngra	”insular / island dwarfism”	1989	biology evo	term rise. 1936 blip. No predators, no bene	westN			dis	pm2
the west	**drugs: inverse agonists.**	1989	biology molecul	a breakthrough.	west	h		dis	yr
the west	one myopia gene found	1990	med dise dev	20 known genes in 2008. 200 in 2018	west			dis	yr
multiple	height and intelligence correlation	1990	sci human	about 0.2, taller are smarter (good nutriti	mul			dis	guess
	sci claim: goodlooking male face	1990	sci human	correlate w competence/intelligence. signa	mul			dis	guess
the west	London official cab drivers have	1990	sci human	an enlarged hippocampus. Memorised so n	west			dis	red
	male Y chromoso DNA groups	1990	sci human	can trace ethnic migrations, male lineage	west			dis	red
	mitochondrial DNA groups	1990	sci human	can trace ethnic migrations, female lineage	west			dis	red
the west	prenatal hormones → homosexual	*1991*	gay categ	”hormones caused brain-wiring” theory, sexual	west			dis	red
	science: wine is good for you.	*1991*	med nutri toxin	resveratrol. like tomato’s lycopene	west			dis	pm2
	explain sepsis state.	1991	medicine	”1991 SIRS”. ”2016 redefine”	west			dis	red
	yeah asteroids have gold.	1991	sci astro	10 parts-per-million, so 100 000 tons on big me	west			dis	yr
Italy	”mirror neurons” found, in macaqu	*1991*	sci human	enhance imitation-learning. 96 the term	elta			dis	pm2
	visceral fat is bad	*1991*	sci human	todo. 96 ”v f is asso with”	west			dis	guess
	Alzheimer-dementia genes	1992	med dise heac	APOE-e4 gene etc.	west			dis	yr
	transfats are bad for heart.	*1992*	med nutri toxin	get plaque in arteries?	west	h		dis	pm2
	quantum ”teleportation”	1992	physicsAtom	copy state of particle, information (or just	west			dis	yr
	exoplanets confirmed (pulsar)	1992	sci astro	planet dims star’s light as passes	west	h		dis	yr
ngra	”snowball Earth” risebegin, planet	*1992*	sci geo	white snow/ice reflects heat, can’t get en	westN			dis	pm2
	false/implanted memories: hmm	*1993*	psychology	have psychologists been naughty&implanted m	west			dis	pm2
	discover: the rich live longer.	1993	sci human	medicine, healthfood, alcohol, less strenuo	unkn			dis	guess
	discover: Flynn effect, intel test	1993	sci human	scores keep going up, like 3pt/10y, 40s to 92. "	west			dis	red
	discover: musical anhedonia	1993	sci human	no pleasure from melodies.	west			dis	red
	pork-cat syndrome (allergy)	1994	med dise alle	cat protein allergy & pork albumin	west			dis	yr
	dis: Factor V Leiden, bloodclot	1994	med dise dev	disorder. One thrombophilia.	west			dis	yr
ngra	discover: Boring Billion Years	*1994*	sci geo	Era. Rocks stay same for 0.6 or 1 bil y. ”climat	westN			dis	pm2
ngra	epigenetic mark N	1995	biology molecul	”chromatin modifications” ngram	westN			dis	pm2
	find one deafness gene.	1995	med hear	(1997 GJB2 gene.)	west			dis	yr
	Bose-Einstein condensate	1995	physicsAtom	created	west			dis	yr
the west	particles: top quark found	1995	physicsAtom	last quark to get seen. Very heavy and disi	west			dis	yr
	aging: longevity genes	*1995*	sci ani biolog	stress-resistance	west			dis	pm2

ngra	”endocannabinoids” termbegin	1995	sci ani biolog	cannabis receptors like. 2009 peak1. see ”	westN			dis	pm2
	one exoplanet confirmed,	1995	sci astro	around main-sequence star. A hot-jupiter. (hot-j	west			dis	yr
	claim: motherhood reduces IQ	1995	sci human	and intelligence. Body changes, cellular str	west			dis	guess
the west	see a brown dwarf star	1995,9	sci astro	dim light-emitting, sub 13jupiter mass. Now th	west			dis	month
the west	”priming” psy technique, 12 subty	*1996*	psychology	propaganda technique, repeat. 1996 study sho	west			dis	red
	Taz-devil face-cancer DFTD is	1996	sci ani biology	contagious. (hostile cells,bite transmission)	west			dis	yr
ngra	”mirror neurons” risebegin	1996	sci ani biology	imitation type learning, these neurons	westN			dis	pm2
multiple	**hey, dinosaurs had feathers.**	1996	sci history fos	super-preserved fossil detail (volcano ash c	mul			dis	yr
the west	dis: dolphins use tools. Culturally	1997	sci ani biolog	search seabottom using sponge to protect	west			dis	yr
the west	universe expansion is accelerating	1997	sci astro	will not get ”big crunch” at end of univers	west			dis	yr
	RNA interference.	1998	biology molecul	clinging bits of RNA/DNA/protein. ”this mo	west			dis	yr
the west	neutrinos have mass, verified.	1998	physicsAtom		west			dis	yr
	autism is a spectrum	*1998*	psychiatry	diagnose Asperger’s/quarterAutistic. Later	west			dis	pm2
ngra	”ego/willpower depletion”	*1998*	psychology	resist temptation N times,vexes brain	westN			dis	pm2
	cultural evolution in dolphi/chimps	*1998*	sci ani biolog	dol use sponge as rooting tool	west			dis	red
	claim: ”a-spot” in vagina.	1998	sexuality sci	not G-spot. 2cm deeper in.	west			dis	yr
the west	mitosomes discovered	1999	biology molecul	in unicell anaerobic amoeba/parasite	west			dis	yr
	claim: soldiers do not get PTSD	1999	psychology	from winning. Get PTSD from losing, or not	unkn			dis	guess
world	**new worry: mega-volcano**	1999	sci geo climat	cause nuclear-winter years, all plants die. (ng	w	h		dis	guess
USA	homeschooled kids outperform	1999	sci soft	public school kids. Discipline. Quiet. Moti	US			dis	red
	sugar causes inflammation.	*2000*	med nutri toxin	plusminus 4-9 years	west			dis	red
the west	universe expansio accelerating.	2000	sci astro	that damn dark energy. No ”big crunch” co	west			dis	yr
the west	babies prefer attractive faces.	*2000*	sci human	beauty conventions are inbuilt. Science of beauty.	west			dis	pm2
	discover: adult Down Syndrome	*2000*	sci human	persons have less cancers. Half the expect	west			dis	pm2
	own-race bias in face recog/recall.	*2000*	sci human	”ORB”. 2001 first published paper??	west			dis	pm2
ngra	oh no, bad molecules when fry [ne	*2000*	science	meat or potato! ”acrylamide in food/potato” ter	westN			dis	pm2
	brain micro-strokes, new worry	2001	med dise hea	Detect cos imaging-tech improved. Sub-5m	west			dis	red
	claim: humans get dumber. Evolution	2001	sci human	pressure not remove stupids anymore. Everyone has	mul			dis	guess
	brain: default mode network	2001	sci human	idling-wandering mind, not focus.	west			dis	yr
	science the old-person-smell.	2001	sci human	it’s 2-nonenal (an aldehyde from omega-7) (goo	west			dis	yr
	read dog genes, hmm all are	2002	anim dogs	from grey-wolves. 2015 more evid.	west			dis	red
the west	red meat allergy, alpha-gal syndr	2002	med dise alle	from tick bite. (vegan authoritarian might s	west			dis	yr
	dis: genes for gout	2002	med dise dev	gene of URAT1. 2008-2010 more.	west			dis	yr
world	SARS virus found, 9.5% fatal	2002	med dise vir	in China. 774 dead.	w		p0	dis	yr
	science: coffee is good for you	*2002*	med nutri toxin	1919 some. Loads of chemicals in coffee. P	west			dis	red
	chimps understand maps &scalemodels	*2002*	sci ani biolog	animal cognition research	west			dis	pm2
	find COX-3 receptor/molecule.	2002	sci ani biology	year publish about this gene-variant.	west			dis	yr
the west	quasi-moons, quasi-satellites	*2002*	sci astro	so rare, not in Ngrams.	west			dis	red
	discover mechanism alco addiction	2002	sci human	dopamine & adenosine?	west			dis	red
the west	fatherhood and marriage-monogamou	*2002*	sci human	linked to lower testosterone level in men. ”tam	west			dis	red

	circadian subtype of depression.	2003	psychiatry	Poor response to antidep pills. disrupted sleep/	west		dis	red
	psychopaths: brain scan reveals.	*2003*	psychiatry	10% larger striatum	west		dis	red
	dis: woman-woman friendships	*2003*	psychology	are less stable than man-man fri.	west		dis	red
ngra	”ego depletion” term rising	*2003*	psychology	45 blip, 62 peak, 2016 peak. Too tired to d	westN		dis	pm2
	dis: how paracetamol works	2003	sci ani biolog	”inhibit COX enzymes” ”descending seroto	west		dis	red
	dis: being fat, more inflammation	2003	sci human	measure markers in blood. Macrophages, c	west		dis	red
	find some autism genes.	2003	sci human	myelin sheath when/howmuch stuff. (2007	west		dis	yr
the west	Psycoholog comorbidities in trans	*2003*	trans categ	research. Dissociative? Trauma?	west		dis	red
	prion diseases, confirmed to [new	*2004*	med dise	exist. Bad form of protein converts good fo	west	h	dis	guess
	mutations,cancer,ion channels	*2004*	med dise car	.	west		dis	pm2
multiple	osteoporosis in vegetarians, not er	*2004*	med nutri toxin	todo improve in 2030.	mul		dis	guess
	dis: capuchins smash w rocks.	*2004*	sci ani biolog	just like cute otters. ”using tree-root anv	unkn		dis	pm2
	project 1984-2004: experts of	*2004*	sci soft	domain/poli, predict future. Results: same a	west		dis	pm2
	shaken baby syndrome disproven or n	2005	medicine2	or 2017? N jailed persons maybe freed.	west		dis	guess
	confirm QGP, quark-gluon plasma	2005	physicsAtom	Impact reached 4 trillion kelvin temp.	west		dis	yr
multiple	trypophobia, hole grids, biological rea	2005	psychology	that one toad’s baby-hold-back. Year when	mul		dis	guess
	claim: every cat’s meow is unique.	2005	sci ani biology	Can prove by recording 2000 cats.	unkn		dis	guess
	monkeys pay to look at butt-pics.	2005	sci ani biolog	Prefer high-status females’ rears.	west		dis	yr
	discover, clouds have microbes	2005	science	like they carry desert-dust colorful.	west		dis	guess
	ant species with sexual parasitism	2006	sci ani biology	year publish about. Acanthomyops.	mul		dis	yr
multiple	bees: Colony Collapse Disorder	*2006*	sci ani biology	stress?Infec?Parasite?Pesticide? 2009 IAPV	mul		dis	pm2
	discover: female ducks have	*2006*	sci ani biology	anti-rape tech, zigzag tube with dead-ends	west		dis	pm2
	discover: some ani have names,	*2006*	sci ani biology	used in their long audio-calls.	west		dis	pm2
world	discover: PFAS in rainwater	2006	sci geo	poly/per fluoroalkyls. Centuries lasting mol	w		dis	yr
world	**new worry: microplastics**	2007	med nutri toxin	in bloodstream/brain. huge in 2015. Testicl	w		dis	yr
	myopia theory: sunlight time	*2007*	med sight	indoors reading 6 hours makes eyeballs g	west		dis	pm2
	dis: fat cells starved of oxygen?	*2007*	sci ani biolog	”lactate production”	west		dis	pm2
	look at exoplanet atmosphere	*2007*	sci astro	vague. How atmo absorb light.	west		dis	pm2
the west	dis: broken genes in severe autism	*2008*	med dise hea	”2007-2011 papers”	west		dis	pm2
	new worry: plant estrogens	*2008*	med nutri toxin	alter male hormones/behav/sperm	west	h	dis	pm2
	sci claim: polarization increased	*2008*	polModern	immediately after smartpho &socialmedia.	west		dis	pm2
	dinosaur feather colors detect,	2008	sci history fos	microstructure sizes.	west		dis	yr
world	more schizoph in UK-living Caribbean	*2008*	sci human	black people than X. 9x UK whites. Is UK too str	w		dis	pm2
the west	**Mars has water ice, confirmed.**	2008,6	sci astro	Later liquid water lake found in 2018.	west		dis	month
world	study ant gut microbes	*2009*	biology micro		w		dis	red
	inflammatory depression,	*2009*	psychiatry	maybe exists, todo in 2031.	west		dis	guess
	claim: diagnosed narcissists, huge	2009	psychology	animal lovers often. Pets predictable, don't ta	unkn		dis	guess
	Komodo dragon has venom,	*2009*	sci ani biology	not ”mouth bact kill target”. Four-acting venom	west		dis	pm2
	”Flynn effect” intelligence test scores	*2009*	sci human	1974 also. Due to age 1-9 brain training? Nutrition? L	west		dis	red
ngra	kilonova (1000x supernova brightness	*2010*	sci astro	when two neutron stars merge	westN		dis	pm2

Russia (modern)	descendants of camp-sent	2010	sci human	educated elite, are high-educated.	R		dis	red
	tetrachromatic human vision	2010	sci human	four color-cone types rare person. 1948 hir	west		dis	yr
	epigenetic mark 4,noncoding RNA	2011	biology	1979 ”methylated gene”	west		dis	pm2
ngra	”decision fatigue” rise	2011	psychology	mind cannot X forever, gets exhausted. 61	westN		dis	pm2
multiple	dinosaurs had feathers	2011	sci history fos	1994 first hints. For warmth / look pretty fo	mul		dis	red
	observe evolution in action	2012	biology evo	over 25y or so. Fruit flies, rodents.	west		dis	red
world	MERS virus found, 35% fatal	2012	med dise vir	in Saudi-Arabia. 2609 cases, 35% fatality rate.	w	p0	dis	yr
the west	Higgs boson confirmed.	2012	physics	therefore the Higgs-field is real, gives sl	west		dis	yr
multiple	male/female pain systems are	2012	sci human	different. Amount and something else. 202	mul		dis	guess
	claim, human facial expressions	2012	sci human	are not universal.	west		dis	pm2
	discover migraine in animals	2013	med dise head	dog with same behav. 1970s try to find.	unkn		dis	yr
	discover: paracetamol in pregnanc	2013	pregnancy	maybe cause problem for fetus	west		dis	yr
the west	cosmos curvature is flat (not spher	2013	sci astro	WMAP, CMB	west		dis	pm2
	discover biflation.	2013	sci econom	in part X of econo, inflation, in p Y deflation.	unkn		dis	guess
	failed-predation evidence in	2013	sci history fos	fossils. Bone bitemarks that clearly healed. ”th	mul		dis	guess
	dis: 5 months baby has conscious	2013	sci human	thinking and some memory. (use EEG to lo	mul		dis	red
world	new worry: nanoplastic particles	2013	science	brain inflammation claim. 2017 in fish brains.	w		dis	pm2
	”meat bad for health!”	2014	med nutri toxin	Plusminus 35y. topic source: a parody vide	west		dis	red
	pregnancy: carnitin deficiency	2014	pregnancy	Science. biotin?	west		dis	pm2
	let's science macaque vocal tract.	2014	sci ani biolog	Yes they could speak human, if were smart.	unkn		dis	pm2
	exoplanet confirmed, habitable	2014	sci astro	distance from star. Or 2013.	west		dis	yr
the west	claim, blue light hinders sleep	2014	sci human	tiresome screen-staring. Ensues ”night mo	west		dis	pm2
	cat/dog can be allergic to	2015	med dise alle	human dust. ”extremely rare”, inconclusiv	west		dis	guess
	dis: warm-blooded fish.	2015	sci ani biolog	the Opah, size of car tyre.	west		dis	yr
	discover: first-generation stars.	2015	sci astro	big hot 2mil y duration ones? ”Population II	west		dis	yr
the west	gravity waves detected.	2015	sci astro	they move at speed of causality.	west		dis	yr
	witness black hole to black hole	2015	sci astro	collision. Mr Hawking’s prediction proven, r	west		dis	yr
	claim: parents divorce correlates with	2015	sci human	child later having lower income. (parent a	west		dis	red
	donating blood prolongs life,	2015	sci human	OR... only healthy-lifestylers donate? ”you	west		dis	pm2
	study correlation: intelligence &	2015	sci human	has-internal-monologue. ”modest positive	west		dis	red
the west	Mayan hierogly: 80% decoded	2015	sci lang		west		dis	pm2
West n Cen Europe	choline for Alzhe prevention?	2016	med nutri toxin	isolated in 1849, essential nutrient. 1990	eW	mi	dis	red
	dino tail fragment preserved in	2016	sci history fos	amber. see feathers.	unkn		dis	yr
the west	brain scans of transgender,	2016	trans categ	do they show homosexuality or trans. 2009 some stu	west		dis	pm2
	salty food makes more hungry.	2017	med nutri toxin	”cos need energy to manage saltload”	west		dis	yr
	create brain assembloids.	2017	sci ani biology	”now we can join organoids A & B & C”	west		dis	yr
	discover: SIK3 gene,	2017	sci ani biolog	how effective sleep is. ”let’s mutate some	west		dis	pm2
	tree-evaporat creates the clouds	2017	sci geo	of rainforest. 2017 satellite evidence.	west		dis	red
	claim: toxopla causes more risk	2017	sci human	seeking. Make rat foolish, make human foo	unkn		dis	guess
	claim: education does raise	2017	sci human	intelligence of a person. It’s not locked aft	west		dis	guess

the west	**”junk DNA” is ”enhancers”**	2018	biology molecul	when on/off gene reading, promoters, if-thens	west	h		dis	yr
the west	sunblock may not prev skincancer	*2018*	med dise canc	need more studies	west			dis	red
the west	**20% of clinical pill trials may**	*2018*	medicine2	be fake or full of problems	west			dis	red
	motherhood reduces telomeres	2018	sci ani biology	”your DNA looks 11y older”	west			dis	yr
	seals do remember what did.	2018	sci ani biolog	For 18 seconds.	west			dis	yr
	claim: high testosterone correla	2018	sci human	tes with lower IQ intelligence. (related:	unkn			dis	red
the west	black hole, imaged	2019	sci astro	the gas speedcircling it, sends light. Esp g	west			dis	yr
	find microplastics in rainwater.	2019	science	claim ”no-one on planet can escape microp	west			dis	yr
world	**Covid-19 virus found, outbreak in**	2019,97	med dise vir	a stealth ver of SARS. Kills elderly. Kills o	w	h	millions	dis	month
world	mitochondrialess parasite animal.	2020	sci ani biology	10 micron multicellu, Myxosporea line. Ooor ha	w			dis	yr
	claim: Europe slavic/center division	2020	sci history	is from soil quality. Small farms vs mega-estates.	west			dis	guess
	claim, age 24 max fluid/novel	2020	sci human	intelligence in humans. (note: ”crystallised	west			dis	guess
	discover: tubarial glands	2020	sci human	another set of salivary glands.	west			dis	yr
	one percent have skinny gene, ver	*2020*	sci human	”ALK (anaplastic lymphoma kinase) gene”	west			dis	pm2
	relig rituals release endorphins.	*2020*	sci human	year of begin to measure it.	west			dis	pm2
world	long Covid, disease/syndrome, afte	*2020,5*	med dise vir	with ”brain fog” and maybe heart/lung damage	w			dis	mi
the west	Parkinson’s from Desulfovibrio?	*2021*	med dise bac	Claim bacteria may be culprit.	west			dis	pm2
	claim: creatine or proper daylight	2021	psychiatry	timing helps with ADHD. ”don’t be hyper”	unkn			dis	guess
multiple	claim: need cities for innovation	2021	sci soft	not jungle tribes / inuit. See inventions mac	mul			dis	red
	claim, mitochondrial dysfuncti	*2022*	biology	is main c of accelerated-aging. In space??	west			dis	guess
USA	MS caused by Epst-Barr virus??	*2022*	med dise vir	”mono” virus	US		mi	dis	pm2
	flu vac reduces heart atk and	*2022*	med vac	stroke chance significantly, if catch the inf	west		mi	dis	pm2
	claim: ice is slippery cos electr	2022	physics	charges.	west			dis	guess
USA	full-autism prevalen ~1.5% age8	*2022*	psychiatry	world 1%, USA 4% boy 1% girl. White avg 2	US			dis	pm2
USA	full-autism prevalence 2.2% adult	*2022*	psychiatry	males 3.4x to 4x more than females.	US			dis	pm2
	role of OCD in violent ideologi-	*2022*	psychology	cal intentions. Ie. farleft farright OCD males.	west			dis	red
	claim: genius way more likely if	2022	sci human	private tutor. No peers. Yes adults. (think	mul			dis	guess
	age 32 human brain fully adult,	2022	sci human	not adolescent anymore.	west			dis	guess
	study claims ”hot countries	2022	sci human	have worse economies than cold or tempe	west			dis	guess
the west	asexuals love feminine faces.	*2022*	sexuality sci	in male and female faces. A discovery.	west			dis	red
	certain sports damage brain	*2022*	sport2	”chronic traumatic encephalopathy” (esp.	west			dis	pm2
world	monkeypox/Mpox in news (sexual-	*2022,6*	med dise vir	1970 in Congo human. 2003 pet rat USA.	w			dis	mi
	LLMs fake selfcritique & solving	2023	AI words	by spewing words from training-data.	west			dis	yr
world	claim, intersex 0.018% prevalence	*2023*	hu species	(born with malformed genitals)	w			dis	red
world	psychopath men may get more	*2023*	hu species	offspring. (leader job causes women to shag/de	w			dis	pm2
world	plant-fungus can infect human.	2023	med dise	discovery in Kolkata India	w			dis	yr
	fiberless diet if Mucispirillum	*2023*	med dise bac	bacteria in gut. A gut-infection discovery.	west			dis	red
	more cancer in young, due to	2023	med dise canc	obesity?? UK study. Microplastic?Sweeteners?	west			dis	guess
	claim: autism from mold in gut.	*2023*	med dise dev	???. inflammation/toxins hinder brain. Bu	unkn			dis	pm2
world	Covid causes persistent cognitive	*2023*	med dise vir	damage, claim. Tracked 34 young persons.	w			dis	pm2

multiple	claim, don’t heat food in plastic	2023	med nutri toxin	container (microwave or boiling or mild ove	mul		mi	dis	red
the west	vegan vs omnivore: no difference	2023	med nutri toxin	in mortality.	west			dis	yr
	contracep pill may change	2023	med pill	depression?? 79-79% higher risk of depre in O	west			dis	yr
the west	shingles vaccine may prevent	2023	medicine	lots of dementia ailments? Alzheimer’s	west		mi	dis	red
	physics of materials: spaghetti	2023	physics	uncooked, never snaps into 2 pieces. Why????	mul			dis	guess
the west	enviro-activism correlates with	2023	polClimate	narcissism, Machiavellianism, antihier aggression, an	west			dis	pm2
	claim, depression and ultraprocessed	2023	psychiatry	foods… especially sweeteners claim	unkn			dis	guess
the west	anxiety gene found	2023	psychiatry	mir-483-5p at Bristol Uni, stress-induced	west			dis	yr
	cannabis in youth is linked to	2023	psychiatry	mental health problems later. (or MH-prone	west			dis	yr
USA	higher testostero in those who	2023	psychology	are weakly Democrat-voters vs veryDem. Give	US			dis	pm2
multiple	sea otters are smart enough to	2023	sci ani biology	ask nearby humans for help, when fellow o	mul			dis	red
world	chimps plan for multiple outcomes	2023	sci ani biolog	more Sentience Score	w			dis	pm2
the west	have episodic memory: rats,	2023	sci ani biolog	apes, and corvids. Animal cognition research.	west			dis	guess
	rats imagine pathfinding	2023	sci ani biology	**see nav activity in rat brain fMRI.**	west			dis	yr
	athlete genes identified	2023	sci human	training boosts X perc people lots	west	h		dis	pm2
	claim: human evolution:	2023	sci human	genes for intelligence & higher-edu are selecte	west			dis	red
the west	sci claim: concussion: female neurons	2023	sci human	longer recovery time. (male combat optimisation, in	west			dis	guess
multiple	study countries’ breast/butt prefs.	2023	sexuality sci	from many site search terms. Google and Pornh	mul			dis	yr
	not enough text data in world,	2024	AI words	to train a LLM to VeryGoodness. Would nee	west			dis	pm2
	proteasome is part of immune	2024	biology molecul	system.	unkn			dis	pm2
	claim: very heavy cannabis use	2024	drugs mild	can cause dementia later in life. (if N year	west			dis	red
multiple	hair-greying can be reversed	2024	med cosmetic b	new tech.	mul			dis	yr
	dis: eating peanuts age 1-5,	2024	med dise alle	lowers p allergy to one third or one quarter	west			dis	pm2
	”32 types of cancer are associated	2024	med dise canc	with obesity” (almost half of types)	unkn			dis	yr
multiple	study says,xylitol bad for veins.	2024	med nutri toxin		mul			dis	pm2
	golf course chemicals get into	2024	med nutri toxin	drinking water of area. Parkinson’s dise get	west			dis	pm2
	claim: ADHD stim-meds reduce	2024	med pill	all-cause mortality. (good for veins and hea	west			dis	pm2
	longevity drug?? rilmenidine,	2024	med pill	mimics the effects of caloric restriction on	west			dis	pm2
	okay, fluids/soda 2h before surgery	2024	med surger	is fine, don’t need to be 7-14h without wat	west			dis	pm2
Finland	a cancer mechanism awakens	2024	medicine2	dormant breast-cancer cells into action	eSc			dis	yr
multiple	dis: venomous crustacean.	2024	sci ani biology	A cave-dweller with xxxx protein.	mul			dis	pm2
	elephants call each other by	2024	sci ani biolog	name-sound. They have names.	unkn			dis	pm2
	marmoset monkeys have names,	2024	sci ani biology	verbalised to each other.	unkn			dis	yr
	elephant calls have name-like compon	2024	sci ani biolog	dolphins also. ”I am big BIlly”	west			dis	pm2
	discover a 14-red-shift galaxy	2024	sci astro	it’s in The Dark Age, most odd. Super dista	mul			dis	yr
	claim: multilingual live longer.	2024	sci human	Because it trains brain more? Or very-low-IQ c	unkn			dis	pm2
USA	claim: kids with great health (not f	2024	sci human	grow up to be 2.5x conservative(LibCon), n	US			dis	pm2
USA	claim: low popul density US zones	2024	sci human	correlate with more suicides than expected.	US			dis	pm2
world	claim, too much fluoride in	2024	sci human	drinking water, correlate w kid lower IQ	w			dis	guess
	ApoB gene variants reduce risk	2024	sci human	of heart disease. (todo year)	west			dis	pm2

	claim: father not in kid's life,	*2024*	sci human	kid get depression (boys 3%up,girls 9%up)	west			dis	pm2
the west	claim: teacher-skill is 10% and	2024	sci human	student IQ/diligence is 90%,in "school achievement"	west			dis	red
	dis: menopause cause brain changes,	2024	sci human	less gray matter in x y areas.	west			dis	red
	exercise boosts neuron growth	*2024*	sci human	"rewires the brain". Mouse study.	west			dis	red
	high cardio fitness correlates	*2024*	sci human	with quite low dementia rate. De onset 9.5	west			dis	pm2
the west	infertile women: same salary	*2024*	sci soft	as men. (it's about hours-allocate prioriti	west			dis	pm2
	claim: low thyroid func hinders	2024	sexualityW	women's sex-drive.	west			dis	guess
	claim: most dangerous time to	2024	tr_flying	air travel is after plane's Annual Inspection	west			dis	guess
the west	men/women brains are different	*2024,1*	sci human	in verbal, working-memory, spatial. Proven once agai	west			dis	mi
the west	"Havana syndrome" studies:	*2024,3*	science	no, it's not "infrasonic weapons". (2016 be	west			dis	mi
the west	lupus dise: bad molecule found	*2024,7*	med dise dev	gene	west			dis	mi
	dis: aspirin fights some cancers by	2025	med dise car	boosting T-cell activity, less metastasizing.	west			dis	yr
	ALS cure, using RNA, mice.	2025	medicine2	Tel Aviv University	west			dis	yr
	hmm amino acid can be in	2025	physicsAtom	superposition, location wobbly. "as large a	west			dis	yr
	strong postmodern-views correlate	*2025*	psychology	with Left-Authoritarian. "it's all a social c	west			dis	pm2
	claim: no sea-level-rise acceleratio	2025	sci geo clima	from Global Warming. "All that 60s 70s 80s	mul			dis	yr
	science claim: no accelera in rate	2025	sci geo clima	of sea level rise.	mul			dis	yr
	claim: China / Europe brain	*2025*	sci human	growth speeds and patterns are different. '	mul			dis	pm2
	claim: LLM-users have weaker	2025	sci human	thinking / memorising.	west			dis	yr
	coffee lessens chance of heart	*2025*	sci human	atrial fibrillation reoccurring.	west			dis	pm2
	whoops, fMRI signal sometimes	2025	sci human	is LOWER activity, not higher. N thousand studies mi	west			dis	yr
	sci claim: mothers get downranked	2025	sci soft	in biz hiring. "they won't focus as much as	mul			dis	red
	claim: monkeys can predict	*2025*	sci soft	election winners, just from face photo. (str	unkn			dis	pm2
	claim: ProgLib-supporting correlates	*2025*	sci soft	with "fear of violent dispossession" (fear and	west			dis	pm2
the west	dis: zone get RW prosecutor: get	*2025*	sci soft	male mortality rate reduction. Cos violent s	west			dis	pm2
	take pictures fo first-gen stars	2037	sci astro	Extremely far away in time and distance	west			dis	
	proof that mental illness can	2038	psychiatry	be acquired through idea/memetic contagi	unkn			dis	guess
	"the sea people" identified	2039	sci history ar	source-city bone DNA please. Probably Gre	unkn			dis	
	common sweetener X is bad	2042	sci human	for you, a discovery. (xylitol bad in 2025??)	unkn		mi	dis	
	veg/fruit/berry X is bad for you	2051	sci human	a science discovery. (don't know yet which	unkn		mi	dis	
	all gut microbiome chemicals	2071	sci ani biology	are mapped. What these 3000 bac species	unkn			dis	
	explain consciousness completely.	2085	sci human	a network of yyyyyy that can xxxxxx.	unkn			dis	
	dark matter, mystery solved	2087	physics	particles or not? The unkn gravity-causer.	unkn			dis	
	dark energy, mystery solved	2097	physics	why spacetime expands? Is it the fields, o	unkn			dis	
	find graviton particle, maybe	2130	physics		unkn			dis	
	discover: animal cells die all	4545	biology	the time. Cell colony (organism) keeps goir	west	h		dis	
	discovery: all traits heritable	4545	biology	partially. Smarts and autism also. (LW oppo	west			dis	
	mutations accumulate, old age.	4545	biology	organism gets worse&worse as years pass. Mut	west			dis	
	dis: evolution doesn't like to add	4545	biology evo	more legs/fingers/eyes/ears/mouths. "why	west			dis	
	claim: female worker less efficient	4545	business	at work,few days period pain each month.	unkn			dis	

	dis: eyewitness testimony inaccurate.	4545	justice	(can test if ppl recall hair colors, heights	mul		dis
	most violent crime is by repeat	4545	justice	offenders. a discovery.	west		dis
	concept: hidden disease/ailment	4545	med dise	person has adapted around it, no diagnosis	unkn		dis
	discover: plague-class microbe	4545	med dise	lethality is an accident. Germs "want" to s	west		dis
	dis: fungal infec pneumonia	4545	med dise	not bacteria, not virus.			dis
	anthrax is wool-sorters' disease	4545	med dise bac	(bacteria spores inhaled)	mul		dis
	dis: some bac have protective	4545	med dise bac	capsules. Survive x-poisons.	west		dis
	dis: brain stem tumors	4545	med dise cancer				dis
	dis: brain tumors	4545	med dise cancer				dis
	dis: liver tumors	4545	med dise cancer				dis
	underactive thyroid, hypothyroidi	4545	med dise dev	gene			dis
	pseudodementia,	4545	med dise heac	looks like dementia but is not. Reversible	west		dis
	amoeba / protozoan / parasite dise	4545	med dise parasi				dis
	discover Xenon gas is anesthetic	4545	med pill	cos clings to one glutamate receptor. Too	west		dis
	antibacterial waters, river/lake	4545	medicine2	has bacteriophage viruses. Ganges river.	west	mi	dis
ngra	claim: places where servants are	4545	misc	cheap, have less innovation. No need for labour	unkn		dis
	dis: sound transmission via	4545	physics	wood or metal rod, or taut wire/string. Cup	unkn		dis
	discover: why metal feels cold.	4545	physics	Conducts heat away rapidly.			dis
	hmm chemicals combine with	4545	physicsAtom	these weight units. Atoms, John Dalton.	west		dis
	vacuum's quantum-froth	4545	physicsAtom	particles pop in and out of existence			dis
	concept: anticuriosity.	4545	practice	Do effort to avoid learning. Esp POLITICS.	unkn		dis
	discover: infertile men.	4545	pregnancy				dis
	discover: infertile women.	4545	pregnancy	"three years of sex and no pregnancy"			dis
	borderline personality disorder,	4545	psychiatry	women have it more than men.	w		dis
	dis: women fawn-response when	4545	psychology	cornered, appease rapist. (also when marit	mul		dis
	human problemsolving: prefer	4545	psychology	to add stuff, not remove stuff. Add bureaucracy	mul		dis
	concept: injustice collectors.	4545	psychology	"big chip on his shoulder" "they looked at	unkn		dis
	hedonic trap/treadmill (early: alc	4545	psychology	year when was identified.	unkn		dis
	study worker burnout (mental)	4545	psychology	76?	west	mi	dis
	eternal flame: nat-gas fissure.	4545	religion	underground ancient organic.			dis
	dis: birdsong is for sex-getting	4545	sci ani biology	and territory-demarcating. "I better not set	unkn		dis
	dis: burrowing tarantula keep	4545	sci ani biology	little snack-sized frog as pet/housecleaner.	unkn		dis
	dis: predators do not "fight".	4545	sci ani biology	Just instakill, or latch on. "fight for mating	unkn		dis
	lactose hurts big baby, thus big	4545	sci ani biology	baby stops drinking mother's milk. A biological	unkn		dis
	discover: koala bear stupid.	4545	sci ani biology	Very smooth brain, cos low-calorie diet. Ma	west		dis
	fat cells are endocrine organ.	4545	sci ani biology	they put out hormones.	west		dis
	measure human & ani reaction	4545	sci ani biology	speeds. Milliseconds. Hu 200-250 ms. Chi	west		dis
	dis: cancer stimulates bloodves-	4545	sci ani biology	growth. "selfish cells"			dis
	dis: groundhogs have special rooms	4545	sci ani biology	and pitfall trap. Nursery, poop-room.			dis
	discover: autotomy.	4545	sci ani biology	eg. detach tail, to escape predator.			dis

claim/discover, desert dust	4545	sci geo	on longdist winds, fertilises Amazon rainfor	mul		dis	
Earth’s rotation is slowing.	4545	sci geo	Note when we have atomic clocks	west		dis	
eunuchs live longer, Korea data	4545	sci human	ie. ”testosterone causes x-stress to cells, o	mul		dis	
human survives better if brain	4545	sci human	illusions, over-detect. Low-calorie calc close en	unkn		dis	
sci claim: schizophre ones can’t	4545	sci human	pass the test ”how would u feel if you did not eat bre	unkn		dis	
claim: teenage motherhood,	4545	sci human	many ”negative offspring outcomes".	west		dis	
dis or claim: any alco use promotes	4545	sci human	dementia.	west		dis	
discover: brain does X to itself	4545	sci human	while run marathon. Then rebuild some.	west		dis	
human conscious mind: 600 bits	4545	sci human	per minute. Your inner monologue, plus sel	west		dis	
dis: height x IQ corre	4545	sci human	dupli			dis	
dis: too tall means cannot be	4545	sci human	high IQ.			dis	
discover: girls vs boys, math	4545	sci human	skills/aptitude.			dis	
discover: iodine fixes cretinism	4545	sci human			mi	dis	
discover: normalcy bias in thinking	4545	sci human	assume opponent thinks-normal.			dis	
find some diabetes genes.	4545	sci human				dis	
night’s sleep is 2 or 3 cycles.	*4545*	sci human	(might be better to sleep 1 cycle not 1.2)			dis	
tree roots have gravity direction	4545	sci plant biol	sense cells. X falls to bottom of cell.			dis	
dis: averaged-out face composite	4545	sci soft	is prettier than average face. Stack 500 tr	unkn		dis	
dis: tipping point, simple	4545	science	eg. balance stack of rocks. And animal po	unkn		dis	
backdraft hazard in firefighting.	4545	science			mi	dis	
dis: tipping point, N-variab systems	4545	science				dis	
discover: teach kids not to use	9999	parenting	aggression/violence. They default to violen	unkn		dis	guess

v = very important, h = half important. y = yes an invention. LW = leftwing/Progre, RW = rightwing/conserva

Around 1974 begins ”Japan n west” clumping, Japan included in The West innovations, collaborate

”the west” (Eur US Australia Canada) begins once USA gets going 1730, USA contributes.

Where: M=mesopo, ME=middle east, eGR = europe Greece Rome, eGk = Greek. As = Asia, R = Russia and USSR

Year italics: vague time plusminus 4. Year red: super vague, plusminus 12y to 60y. Year deep magenta: ultra vague or guess.

Sources are ”it exists, plus Ngrams year”, Wikipedia, Google searches, and a few trusted podcasts. Send corrections to Twitter user Tomi_Tapio.

Dark grey industrial era. Cyan,books spread. Green where,science rising. Purple where,bubonic. Yel,electric

Note on Ngrams site: BAD OCR may cause eg. their ears = their cars, therefore early ”blips” of mentions carefully consider.

dark green backgr in year is freshly added. 4545, 4646, 9999 are placeholder/dummy years, not future predictions. 9999 is harder to find out.

Year Precision is for machine-understanding: mi=month italics, month precise, year preci, pm2 plusminus2y(italics), red sourced n vague, guess magenta.

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